

## WEST Search History





DATE: Sunday, August 15, 2004

Hide?	Set Name	Query	Hit Count
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
<input type="checkbox"/>	L43	Zhang-Shuguang.IN.	19
<input type="checkbox"/>	L42	l40 not l36	31
<input type="checkbox"/>	L41	L40 and cell same (growth or adhes\$)	40
<input type="checkbox"/>	L40	@ad>20021211 and L39	52
<input type="checkbox"/>	L39	L28 and L38	252
<input type="checkbox"/>	L38	(Protein or peptide or polypeptide) with array .	9414
	DB=PGPB,USPT; PLUR=YES; OP=OR		
<input type="checkbox"/>	L37	(Protein or peptide or polypeptide) with array	8439
<input type="checkbox"/>	L36	L34 and cell with adhes\$	42
<input type="checkbox"/>	L35	L34and cell with adhes\$	30185
<input type="checkbox"/>	L34	L33 and L28	184
<input type="checkbox"/>	L33	Protein with array	6303
<input type="checkbox"/>	L32	L31 and array	52
<input type="checkbox"/>	L31	L30 and pattern same region	101
<input type="checkbox"/>	L30	L29 and cell with adhes\$	197
<input type="checkbox"/>	L29	L27 and L28	694
<input type="checkbox"/>	L28	((solid adj support) or surface) same ((term\$ near amino) and pattern\$)	763
<input type="checkbox"/>	L27	((solid adj support) or surface) same (\$peptid\$ or protein)	73159
<input type="checkbox"/>	L26	L25 and pattern same region	100
<input type="checkbox"/>	L25	l18 and cell with adhes\$	198
<input type="checkbox"/>	L24	L23 and cell with adhes\$	5
<input type="checkbox"/>	L23	L18 AND ((preselected or reproducible) same region)	50
<input type="checkbox"/>	L22	L20 and cell with adhes\$	48
<input type="checkbox"/>	L21	L20 and cell and adhes\$	105
<input type="checkbox"/>	L20	L19 and (preselected or reproducible)	202
<input type="checkbox"/>	L19	L18 and region	714
<input type="checkbox"/>	L18	L16 not L17	748
<input type="checkbox"/>	L17	@ad>20021211 and L16	136
<input type="checkbox"/>	L16	((solid adj support) or surface) same ((term\$ near (amino or \$peptid\$ or protein)) and pattern\$)	884

<i>DB=USPT; PLUR=YES; OP=OR</i>		
<input type="checkbox"/>	L15 ((solid adj support) or surface) same ((term\$ near (amino or \$peptid\$ or protein)) and pattern\$)	455
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>		
<input type="checkbox"/>	L14 ((solid adj support) or surface) same ((term\$ near (amino or \$peptid\$ or protein)) and pattern\$)	57
<i>DB=USPT; PLUR=YES; OP=OR</i>		
<input type="checkbox"/>	L13 L11 not L12	201
<input type="checkbox"/>	L12 @ad>19970625 and L11	254
<input type="checkbox"/>	L11 ((solid adj support) or surface) same ((term\$ near (amino or \$peptid\$ or protein)) and pattern\$)	455
<input type="checkbox"/>	L10 ((solid adj support) or surface) same (term\$ near ((amino or \$peptid\$ or protein) and pattern\$))	0
<input type="checkbox"/>	L9 L8 and pattern	765
<input type="checkbox"/>	L8 l4 not L7	1695
<input type="checkbox"/>	L7 @ad>19970625 and L4	1668
<input type="checkbox"/>	L6 @pd>19970625 and L4	2635
<input type="checkbox"/>	L5 19970625.f.d. and L4	4
<input type="checkbox"/>	L4 ((solid adj support) or surface) same (term\$ near (amino or \$peptid\$ or protein))	3363
<input type="checkbox"/>	L3 5512131.pn.	1
<input type="checkbox"/>	L2 5512131.pn. and solid adj support	0
<input type="checkbox"/>	L1 6368877.pn. and solid adj support	1

END OF SEARCH HISTORY

## Hit List

Search Results - Record(s) 51 through 100 of 201 returned.

☐ 51. Document ID: US 6046157 A

L13: Entry 51 of 201

File: USPT

Apr 4, 2000

US-PAT-NO: 6046157

DOCUMENT-IDENTIFIER: US 6046157 A

TITLE: Modulation of TGF-.beta. by recombinant TGF-.beta. type II receptor polypeptides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 52. Document ID: US 6043216 A

L13: Entry 52 of 201

File: USPT

Mar 28, 2000

US-PAT-NO: 6043216

DOCUMENT-IDENTIFIER: US 6043216 A

TITLE: Methods and composition for detecting and treating kidney diseases associated with adhesion of crystals to kidney cells

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 53. Document ID: US 6037324 A

L13: Entry 53 of 201

File: USPT

Mar 14, 2000

US-PAT-NO: 6037324

DOCUMENT-IDENTIFIER: US 6037324 A

TITLE: Inhibitors of MAdCAM-1-mediated interactions and methods of use therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 54. Document ID: US 6037124 A

L13: Entry 54 of 201

File: USPT

Mar 14, 2000

US-PAT-NO: 6037124

DOCUMENT-IDENTIFIER: US 6037124 A

TITLE: Carboxylated polyvinylidene fluoride solid supports for the immobilization of biomolecules and methods of use thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D.
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☐ 55. Document ID: US 6034223 A

L13: Entry 55 of 201

File: USPT

Mar 7, 2000

US-PAT-NO: 6034223

DOCUMENT-IDENTIFIER: US 6034223 A

TITLE: Non-peptidyl moiety-conjugated CD4-gamma2 and CD4-IgG2 immunoconjugates, and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D.
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☐ 56. Document ID: US 6023010 A

L13: Entry 56 of 201

File: USPT

Feb 8, 2000

US-PAT-NO: 6023010

DOCUMENT-IDENTIFIER: US 6023010 A

TITLE: Transgenic non-human animals depleted in a mature lymphocytic cell-type

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D.
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☐ 57. Document ID: US 6022735 A

L13: Entry 57 of 201

File: USPT

Feb 8, 2000

US-PAT-NO: 6022735

DOCUMENT-IDENTIFIER: US 6022735 A

\*\* See image for Certificate of Correction \*\*

TITLE: Composition for introducing nucleic acid complexes into higher eucaryotic cells

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D.
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☐ 58. Document ID: US 6010872 A

L13: Entry 58 of 201

File: USPT

Jan 4, 2000

US-PAT-NO: 6010872

DOCUMENT-IDENTIFIER: US 6010872 A

\*\* See image for Certificate of Correction \*\*

TITLE: Recombinant production of TGF-.beta. type III receptor (betaglycan)



polypeptides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D.
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☐ 59. Document ID: US 6008011 A

L13: Entry 59 of 201

File: USPT

Dec 28, 1999

US-PAT-NO: 6008011

DOCUMENT-IDENTIFIER: US 6008011 A

TITLE: TGF-.beta. type II receptor cDNAs

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D.
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☐ 60. Document ID: US 6007845 A

L13: Entry 60 of 201

File: USPT

Dec 28, 1999

US-PAT-NO: 6007845

DOCUMENT-IDENTIFIER: US 6007845 A

TITLE: Nanoparticles and microparticles of non-linear hydrophilic-hydrophobic multiblock copolymers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D.
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☐ 61. Document ID: US 6001969 A

L13: Entry 61 of 201

File: USPT

Dec 14, 1999

US-PAT-NO: 6001969

DOCUMENT-IDENTIFIER: US 6001969 A

TITLE: Recombinant TGF-.beta. type II receptor polypeptides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D.
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☐ 62. Document ID: US 6001823 A

L13: Entry 62 of 201

File: USPT

Dec 14, 1999

US-PAT-NO: 6001823

DOCUMENT-IDENTIFIER: US 6001823 A

TITLE: Treatment or prophylaxis of diseases caused by pilus-forming bacteria

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D.
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☐ 63. Document ID: US 6001358 A

L13: Entry 63 of 201

File: USPT

Dec 14, 1999

US-PAT-NO: 6001358

DOCUMENT-IDENTIFIER: US 6001358 A

\*\* See image for Certificate of Correction \*\*

TITLE: Humanized antibodies to human gp39, compositions containing thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. D.
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☐ 64. Document ID: US 5994515 A

L13: Entry 64 of 201

File: USPT

Nov 30, 1999

US-PAT-NO: 5994515

DOCUMENT-IDENTIFIER: US 5994515 A

TITLE: Antibodies directed against cellular coreceptors for human immunodeficiency virus and methods of using the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. D.
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☐ 65. Document ID: US 5993827 A

L13: Entry 65 of 201

File: USPT

Nov 30, 1999

US-PAT-NO: 5993827

DOCUMENT-IDENTIFIER: US 5993827 A

TITLE: Binding domains from plasmodium vivax and plasmodium falciparum erythrocyte binding proteins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. D.
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☐ 66. Document ID: US 5989893 A

L13: Entry 66 of 201

File: USPT

Nov 23, 1999

US-PAT-NO: 5989893

DOCUMENT-IDENTIFIER: US 5989893 A

TITLE: Receptor-activated reporter systems

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. D.
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☐ 67. Document ID: US 5989834 A

L13: Entry 67 of 201

File: USPT

Nov 23, 1999

US-PAT-NO: 5989834

DOCUMENT-IDENTIFIER: US 5989834 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Uses of nucleic acid encoding neuropeptide Y/peptide YY (Y2) receptors  
nucleic acid encoding

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. D.
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☐ 68. Document ID: US 5981273 A

L13: Entry 68 of 201

File: USPT

Nov 9, 1999

US-PAT-NO: 5981273

DOCUMENT-IDENTIFIER: US 5981273 A

TITLE: Composition comprising an endosomolytic agent for introducing nucleic acid  
complexes into higher eucaryotic cells

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. D.
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☐ 69. Document ID: US 5965371 A

L13: Entry 69 of 201

File: USPT

Oct 12, 1999

US-PAT-NO: 5965371

DOCUMENT-IDENTIFIER: US 5965371 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Method of intracellular binding of target molecules

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. D.
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☒ 70. Document ID: US 5965305 A

L13: Entry 70 of 201

File: USPT

Oct 12, 1999

US-PAT-NO: 5965305

DOCUMENT-IDENTIFIER: US 5965305 A

TITLE: Method for surface modification to create regions resistant to adsorption of  
biomolecules

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. D.
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☐ 71. Document ID: US 5962635 A

L13: Entry 71 of 201

File: USPT

Oct 5, 1999

## Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 50 of 201 returned.

☐ 1. Document ID: US 6713069 B1

L13: Entry 1 of 201

File: USPT

Mar 30, 2004

US-PAT-NO: 6713069

DOCUMENT-IDENTIFIER: US 6713069 B1

TITLE: Compositions and methods for detecting, preventing, and treating African Hemorrhagic Fever

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Draw D.
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☐ 2. Document ID: US 6673896 B1

L13: Entry 2 of 201

File: USPT

Jan 6, 2004

US-PAT-NO: 6673896

DOCUMENT-IDENTIFIER: US 6673896 B1

TITLE: Derivatives of soluble T-4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Draw D.
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☐ 3. Document ID: US 6652808 B1

L13: Entry 3 of 201

File: USPT

Nov 25, 2003

US-PAT-NO: 6652808

DOCUMENT-IDENTIFIER: US 6652808 B1

TITLE: Methods for the electronic assembly and fabrication of devices

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Draw D.
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☐ 4. Document ID: US 6645933 B1

L13: Entry 4 of 201

File: USPT

Nov 11, 2003

US-PAT-NO: 6645933

DOCUMENT-IDENTIFIER: US 6645933 B1

TITLE: Receptor ligand VEGF-C

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Drawings
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☐ 5. Document ID: US 6638510 B1

L13: Entry 5 of 201

File: USPT

Oct 28, 2003

US-PAT-NO: 6638510

DOCUMENT-IDENTIFIER: US 6638510 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Recombinant plasmid and a method of controlling the effects of Yersinia pestis

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Drawings
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☐ 6. Document ID: US 6610294 B1

L13: Entry 6 of 201

File: USPT

Aug 26, 2003

US-PAT-NO: 6610294

DOCUMENT-IDENTIFIER: US 6610294 B1

TITLE: Methods of inhibiting an autoimmune response in a human suffering from an autoimmune disease by administering an antibody that binds to a protein to which monoclonal antibody 5C8 binds

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Drawings
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☐ 7. Document ID: US 6592876 B1

L13: Entry 7 of 201

File: USPT

Jul 15, 2003

US-PAT-NO: 6592876

DOCUMENT-IDENTIFIER: US 6592876 B1

TITLE: Pneumococcal genes, portions thereof, expression products therefrom, and uses of such genes, portions and products

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Drawings
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☐ 8. Document ID: US 6566092 B1

L13: Entry 8 of 201

File: USPT

May 20, 2003

US-PAT-NO: 6566092

DOCUMENT-IDENTIFIER: US 6566092 B1

TITLE: DNA encoding a vertebrate homolog of hedgehog, Vhh-1, expressed by the

notochord, and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Draw D.
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☐ 9. Document ID: US 6544771 B1

L13: Entry 9 of 201

File: USPT

Apr 8, 2003

US-PAT-NO: 6544771

DOCUMENT-IDENTIFIER: US 6544771 B1

TITLE: Retroviral gene therapy vectors and therapeutic methods based thereon

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Draw D.
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☐ 10. Document ID: US 6534055 B1

L13: Entry 10 of 201

File: USPT

Mar 18, 2003

US-PAT-NO: 6534055

DOCUMENT-IDENTIFIER: US 6534055 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Methods for selectively stimulating proliferation of T cells

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Draw D.
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☐ 11. Document ID: US 6506558 B1

L13: Entry 11 of 201

File: USPT

Jan 14, 2003

US-PAT-NO: 6506558

DOCUMENT-IDENTIFIER: US 6506558 B1

TITLE: Very large scale immobilized polymer synthesis

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Draw D.
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☐ 12. Document ID: US 6500613 B1

L13: Entry 12 of 201

File: USPT

Dec 31, 2002

US-PAT-NO: 6500613

DOCUMENT-IDENTIFIER: US 6500613 B1

TITLE: Pneumococcal surface proteins and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Draw D.
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☐ 13. Document ID: US 6455277 B1

L13: Entry 13 of 201

File: USPT

Sep 24, 2002

US-PAT-NO: 6455277

DOCUMENT-IDENTIFIER: US 6455277 B1

TITLE: Polynucleotides encoding human glial cell line-derived neurotrophic factor receptor polypeptides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D.
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☐ 14. Document ID: US 6451313 B1

L13: Entry 14 of 201

File: USPT

Sep 17, 2002

US-PAT-NO: 6451313

DOCUMENT-IDENTIFIER: US 6451313 B1

TITLE: CD4-gamma2 and CD4-IGG2 chimeras

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D.
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☐ 15. Document ID: US 6420169 B1

L13: Entry 15 of 201

File: USPT

Jul 16, 2002

US-PAT-NO: 6420169

DOCUMENT-IDENTIFIER: US 6420169 B1

TITLE: Apparatus for forming polynucleotides or polypeptides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D.
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☐ 16. Document ID: US 6420127 B1

L13: Entry 16 of 201

File: USPT

Jul 16, 2002

US-PAT-NO: 6420127

DOCUMENT-IDENTIFIER: US 6420127 B1

TITLE: Compounds and pharmaceutical compositions for the treatment and prophylaxis of bacterial infections

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D.
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☐ 17. Document ID: US 6406844 B1

L13: Entry 17 of 201

File: USPT

Jun 18, 2002

US-PAT-NO: 6406844  
DOCUMENT-IDENTIFIER: US 6406844 B1

TITLE: Very large scale immobilized polymer synthesis

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 18. Document ID: US 6403088 B1

L13: Entry 18 of 201

File: USPT

Jun 11, 2002

US-PAT-NO: 6403088  
DOCUMENT-IDENTIFIER: US 6403088 B1

TITLE: Antibodies reactive with VEGF-C, a ligand for the Flt4 receptor tyrosine kinase (VEGFR-3)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 19. Document ID: US 6368877 B1

L13: Entry 19 of 201

File: USPT

Apr 9, 2002

US-PAT-NO: 6368877  
DOCUMENT-IDENTIFIER: US 6368877 B1  
\*\* See image for Certificate of Correction \*\*

TITLE: Self-assembling peptide surfaces for cell patterning and interactions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 20. Document ID: US 6362325 B1

L13: Entry 20 of 201

File: USPT

Mar 26, 2002

US-PAT-NO: 6362325  
DOCUMENT-IDENTIFIER: US 6362325 B1

TITLE: Murine 4-1BB gene

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 21. Document ID: US 6355237 B1

L13: Entry 21 of 201

File: USPT

Mar 12, 2002

US-PAT-NO: 6355237  
DOCUMENT-IDENTIFIER: US 6355237 B1  
\*\* See image for Certificate of Correction \*\*



TITLE: Methods for using the obese gene and its gene product to stimulate hematopoietic development

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 22. Document ID: US 6352694 B1

L13: Entry 22 of 201

File: USPT

Mar 5, 2002

US-PAT-NO: 6352694

DOCUMENT-IDENTIFIER: US 6352694 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Methods for inducing a population of T cells to proliferate using agents which recognize TCR/CD3 and ligands which stimulate an accessory molecule on the surface of the T cells

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 23. Document ID: US 6309822 B1

L13: Entry 23 of 201

File: USPT

Oct 30, 2001

US-PAT-NO: 6309822

DOCUMENT-IDENTIFIER: US 6309822 B1

TITLE: Method for comparing copy number of nucleic acid sequences

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 24. Document ID: US 6287559 B1

L13: Entry 24 of 201

File: USPT

Sep 11, 2001

US-PAT-NO: 6287559

DOCUMENT-IDENTIFIER: US 6287559 B1

TITLE: Cloning and recombinant production of vespid venom hyaluronidases, and immunological therapies based thereon

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 25. Document ID: US 6268476 B1

L13: Entry 25 of 201

File: USPT

Jul 31, 2001

US-PAT-NO: 6268476

DOCUMENT-IDENTIFIER: US 6268476 B1

TITLE: EPH receptor ligands, and uses related thereto

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw D
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☐ 26. Document ID: US 6261786 B1

L13: Entry 26 of 201

File: USPT

Jul 17, 2001

US-PAT-NO: 6261786

DOCUMENT-IDENTIFIER: US 6261786 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Screening assays for hedgehog agonists and antagonists

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw D
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☐ 27. Document ID: US 6258527 B1

L13: Entry 27 of 201

File: USPT

Jul 10, 2001

US-PAT-NO: 6258527

DOCUMENT-IDENTIFIER: US 6258527 B1

TITLE: Methods of identifying g-coupled receptors associated with macrophage-trophic HIV, and diagnostic and therapeutic uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw D
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☐ 28. Document ID: US 6245530 B1

L13: Entry 28 of 201

File: USPT

Jun 12, 2001

US-PAT-NO: 6245530

DOCUMENT-IDENTIFIER: US 6245530 B1

TITLE: Receptor ligand

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw D
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☐ 29. Document ID: US 6245335 B1

L13: Entry 29 of 201

File: USPT

Jun 12, 2001

US-PAT-NO: 6245335

DOCUMENT-IDENTIFIER: US 6245335 B1

TITLE: Choline binding proteins for anti-pneumococcal vaccines

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw D
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☐ 30. Document ID: US 6242568 B1

L13: Entry 30 of 201

File: USPT

Jun 5, 2001

US-PAT-NO: 6242568

DOCUMENT-IDENTIFIER: US 6242568 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Zinc finger protein derivatives and methods therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 31. Document ID: US 6225625 B1

L13: Entry 31 of 201

File: USPT

May 1, 2001

US-PAT-NO: 6225625

DOCUMENT-IDENTIFIER: US 6225625 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Signal detection methods and apparatus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 32. Document ID: US 6221839 B1

L13: Entry 32 of 201

File: USPT

Apr 24, 2001

US-PAT-NO: 6221839

DOCUMENT-IDENTIFIER: US 6221839 B1

TITLE: FIt4 ligand and methods of use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 33. Document ID: US 6201108 B1

L13: Entry 33 of 201

File: USPT

Mar 13, 2001

US-PAT-NO: 6201108

DOCUMENT-IDENTIFIER: US 6201108 B1

TITLE: TGF- $\beta$  type receptor cDNAs encoded products and uses therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 34. Document ID: US 6187748 B1

L13: Entry 34 of 201

File: USPT

Feb 13, 2001

US-PAT-NO: 6187748  
DOCUMENT-IDENTIFIER: US 6187748 B1

TITLE: Uses of CD4-gamma2 and CD4-IgG2 chimeras

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	NUMC	Draw D
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☐ 35. Document ID: US 6184358 B1

L13: Entry 35 of 201

File: USPT

Feb 6, 2001

US-PAT-NO: 6184358  
DOCUMENT-IDENTIFIER: US 6184358 B1  
\*\* See image for Certificate of Correction \*\*

TITLE: IP-10/Mig receptor designated CXCR3, antibodies, nucleic acids, and methods of use therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	NUMC	Draw D
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☐ 36. Document ID: US 6183750 B1

L13: Entry 36 of 201

File: USPT

Feb 6, 2001

US-PAT-NO: 6183750  
DOCUMENT-IDENTIFIER: US 6183750 B1

TITLE: Avipox virus containing DNA sequences encoding herpesvirus glycoproteins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	NUMC	Draw D
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☐ 37. Document ID: US 6165747 A

L13: Entry 37 of 201

File: USPT

Dec 26, 2000

US-PAT-NO: 6165747  
DOCUMENT-IDENTIFIER: US 6165747 A  
\*\* See image for Certificate of Correction \*\*

TITLE: Nucleic acids encoding hedgehog proteins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	NUMC	Draw D
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☐ 38. Document ID: US 6153396 A

L13: Entry 38 of 201

File: USPT

Nov 28, 2000

US-PAT-NO: 6153396  
DOCUMENT-IDENTIFIER: US 6153396 A

TITLE: Treatment or prophylaxis of diseases caused by pilus-forming bacteria

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 39. Document ID: US 6140466 A

L13: Entry 39 of 201

File: USPT

Oct 31, 2000

US-PAT-NO: 6140466

DOCUMENT-IDENTIFIER: US 6140466 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Zinc finger protein derivatives and methods therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 40. Document ID: US 6140111 A

L13: Entry 40 of 201

File: USPT

Oct 31, 2000

US-PAT-NO: 6140111

DOCUMENT-IDENTIFIER: US 6140111 A

TITLE: Retroviral gene therapy vectors and therapeutic methods based thereon

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 41. Document ID: US 6130316 A

L13: Entry 41 of 201

File: USPT

Oct 10, 2000

US-PAT-NO: 6130316

DOCUMENT-IDENTIFIER: US 6130316 A

TITLE: Fusion proteins of novel CTLA4/CD28 ligands and uses therefore

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 42. Document ID: US 6130071 A

L13: Entry 42 of 201

File: USPT

Oct 10, 2000

US-PAT-NO: 6130071

DOCUMENT-IDENTIFIER: US 6130071 A

TITLE: Vascular endothelial growth factor C (VEGF-C) .DELTA.Cys.sub.156 protein and gene, and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 43. Document ID: US 6111089 A

L13: Entry 43 of 201

File: USPT

Aug 29, 2000

US-PAT-NO: 6111089

DOCUMENT-IDENTIFIER: US 6111089 A

TITLE: Trophinin, trophinin-assisting proteins and methods to inhibit implantation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 44. Document ID: US 6110669 A

L13: Entry 44 of 201

File: USPT

Aug 29, 2000

US-PAT-NO: 6110669

DOCUMENT-IDENTIFIER: US 6110669 A

TITLE: Polymeric reagents for immobilizing biopolymers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 45. Document ID: US 6084067 A

L13: Entry 45 of 201

File: USPT

Jul 4, 2000

US-PAT-NO: 6084067

DOCUMENT-IDENTIFIER: US 6084067 A

TITLE: CTLA4/CD28 ligands and uses therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 46. Document ID: US 6083478 A

L13: Entry 46 of 201

File: USPT

Jul 4, 2000

US-PAT-NO: 6083478

DOCUMENT-IDENTIFIER: US 6083478 A

TITLE: Non-peptidyl moiety-conjugated CD4-gamma2 and CD4-IgG2 Immunoconjugates, and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 47. Document ID: US 6077663 A

L13: Entry 47 of 201

File: USPT

Jun 20, 2000

US-PAT-NO: 6077663

DOCUMENT-IDENTIFIER: US 6077663 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Composition for introducing nucleic acid complexes into higher eucaryotic cells

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw D
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☐ 48. Document ID: US 6071716 A

L13: Entry 48 of 201

File: USPT

Jun 6, 2000

US-PAT-NO: 6071716

DOCUMENT-IDENTIFIER: US 6071716 A

TITLE: DNA encoding, B7, a new member of the IG superfamily with unique expression on activated and neoplastic B cells

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw D
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☐ 49. Document ID: US 6066321 A

L13: Entry 49 of 201

File: USPT

May 23, 2000

US-PAT-NO: 6066321

DOCUMENT-IDENTIFIER: US 6066321 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Method for antagonizing vascular adhesion protein-1 (VAP-1)-mediated binding of endothelial cells to lymphocytes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw D
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☐ 50. Document ID: US 6057100 A

L13: Entry 50 of 201

File: USPT

May 2, 2000

US-PAT-NO: 6057100

DOCUMENT-IDENTIFIER: US 6057100 A

TITLE: Oligonucleotide arrays

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw D
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US-PAT-NO: 5962635  
DOCUMENT-IDENTIFIER: US 5962635 A

TITLE: Therapeutic compounds

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Draw D
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☐ 72. Document ID: US 5958882 A

L13: Entry 72 of 201

File: USPT

Sep 28, 1999

US-PAT-NO: 5958882  
DOCUMENT-IDENTIFIER: US 5958882 A  
\*\* See image for Certificate of Correction \*\*

TITLE: Compounds that inhibit T cell proliferation and methods using the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Draw D
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☐ 73. Document ID: US 5958784 A

L13: Entry 73 of 201

File: USPT

Sep 28, 1999

US-PAT-NO: 5958784  
DOCUMENT-IDENTIFIER: US 5958784 A

TITLE: Predicting folded structures of proteins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Draw D
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☐ 74. Document ID: US 5948412 A

L13: Entry 74 of 201

File: USPT

Sep 7, 1999

US-PAT-NO: 5948412  
DOCUMENT-IDENTIFIER: US 5948412 A

TITLE: Vaccine for Moraxella catarrhalis

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Draw D
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☐ 75. Document ID: US 5942607 A

L13: Entry 75 of 201

File: USPT

Aug 24, 1999

US-PAT-NO: 5942607  
DOCUMENT-IDENTIFIER: US 5942607 A

TITLE: B7-2: a CTLA4/CD28 ligand

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D
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☒ 76. Document ID: US 5925259 A

L13: Entry 76 of 201

File: USPT

Jul 20, 1999

US-PAT-NO: 5925259

DOCUMENT-IDENTIFIER: US 5925259 A

TITLE: Lithographic surface or thin layer modification

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D
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☐ 77. Document ID: US 5910451 A

L13: Entry 77 of 201

File: USPT

Jun 8, 1999

US-PAT-NO: 5910451

DOCUMENT-IDENTIFIER: US 5910451 A

TITLE: Trophinin and trophinin-assisting proteins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D
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☐ 78. Document ID: US 5910418 A

L13: Entry 78 of 201

File: USPT

Jun 8, 1999

US-PAT-NO: 5910418

DOCUMENT-IDENTIFIER: US 5910418 A

TITLE: Antibodies and assay for detecting mutant APC proteins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D
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☐ 79. Document ID: US 5904824 A

L13: Entry 79 of 201

File: USPT

May 18, 1999

US-PAT-NO: 5904824

DOCUMENT-IDENTIFIER: US 5904824 A

TITLE: Microfluidic electrophoresis device

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D
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☐ 80. Document ID: US 5902742 A

L13: Entry 80 of 201

File: USPT

May 11, 1999

US-PAT-NO: 5902742

DOCUMENT-IDENTIFIER: US 5902742 A

TITLE: Complex growth supplement for maintenance of bacterial cell viability and induction of bacterial cell differentiation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 81. Document ID: US 5891841 A

L13: Entry 81 of 201

File: USPT

Apr 6, 1999

US-PAT-NO: 5891841

DOCUMENT-IDENTIFIER: US 5891841 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Methods of using intercellular adhesion molecule-3 (ICAM-3), antibodies thereto, and soluble fragments thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 82. Document ID: US 5889165 A

L13: Entry 82 of 201

File: USPT

Mar 30, 1999

US-PAT-NO: 5889165

DOCUMENT-IDENTIFIER: US 5889165 A

TITLE: Photolabile nucleoside protecting groups

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 83. Document ID: US 5880267 A

L13: Entry 83 of 201

File: USPT

Mar 9, 1999

US-PAT-NO: 5880267

DOCUMENT-IDENTIFIER: US 5880267 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Trophinin and trophinin-assisting protein agonists, antibodies and antagonists

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 84. Document ID: US 5879895 A

L13: Entry 84 of 201

File: USPT

Mar 9, 1999

US-PAT-NO: 5879895  
DOCUMENT-IDENTIFIER: US 5879895 A

TITLE: Recombinant bovine herpesvirus type 1 polypeptides and immunoassays

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 85. Document ID: US 5877281 A

L13: Entry 85 of 201

File: USPT

Mar 2, 1999

US-PAT-NO: 5877281  
DOCUMENT-IDENTIFIER: US 5877281 A

TITLE: Developmentally-regulated endothelial cell locus-1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 86. Document ID: US 5877278 A

L13: Entry 86 of 201

File: USPT

Mar 2, 1999

US-PAT-NO: 5877278  
DOCUMENT-IDENTIFIER: US 5877278 A

TITLE: Synthesis of N-substituted oligomers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 87. Document ID: US 5877155 A

L13: Entry 87 of 201

File: USPT

Mar 2, 1999

US-PAT-NO: 5877155  
DOCUMENT-IDENTIFIER: US 5877155 A

TITLE: Mimotopes and anti-mimotopes of human platelet glycoprotein Ib/IX

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 88. Document ID: US 5876985 A

L13: Entry 88 of 201

File: USPT

Mar 2, 1999

US-PAT-NO: 5876985  
DOCUMENT-IDENTIFIER: US 5876985 A

TITLE: Methods and compositions for the preparation of recombinant Trichomonas vaginalis proteins and peptides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D.
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☐ 89. Document ID: US 5872011 A

L13: Entry 89 of 201

File: USPT

Feb 16, 1999

US-PAT-NO: 5872011

DOCUMENT-IDENTIFIER: US 5872011 A

TITLE: Crystal of a protein-ligand complex containing an N-terminal truncated eIF4E, and methods of use thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D.
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☐ 90. Document ID: US 5871928 A

L13: Entry 90 of 201

File: USPT

Feb 16, 1999

US-PAT-NO: 5871928

DOCUMENT-IDENTIFIER: US 5871928 A

TITLE: Methods for nucleic acid analysis

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D.
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☐ 91. Document ID: US 5858989 A

L13: Entry 91 of 201

File: USPT

Jan 12, 1999

US-PAT-NO: 5858989

DOCUMENT-IDENTIFIER: US 5858989 A

TITLE: Vaccines comprising nucleotide sequences encoding bovine herpesvirus type 1 gI, gII and gIV

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D.
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☐ 92. Document ID: US 5858776 A

L13: Entry 92 of 201

File: USPT

Jan 12, 1999

US-PAT-NO: 5858776

DOCUMENT-IDENTIFIER: US 5858776 A

\*\* See image for Certificate of Correction \*\*

TITLE: Tumor cells with increased immunogenicity and uses therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D.
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☐ 93. Document ID: US 5858360 A

L13: Entry 93 of 201

File: USPT

Jan 12, 1999

US-PAT-NO: 5858360

DOCUMENT-IDENTIFIER: US 5858360 A

\*\* See image for Certificate of Correction \*\*

TITLE: Trophinin and trophinin-assisting proteins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KIMC	Draw D
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☐ 94. Document ID: US 5856441 A

L13: Entry 94 of 201

File: USPT

Jan 5, 1999

US-PAT-NO: 5856441

DOCUMENT-IDENTIFIER: US 5856441 A

TITLE: Serrate fragments and derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KIMC	Draw D
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☐ 95. Document ID: US 5854037 A

L13: Entry 95 of 201

File: USPT

Dec 29, 1998

US-PAT-NO: 5854037

DOCUMENT-IDENTIFIER: US 5854037 A

TITLE: Recombinant negative strand RNA virus expression systems and vaccines

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KIMC	Draw D
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☐ 96. Document ID: US 5851829 A

L13: Entry 96 of 201

File: USPT

Dec 22, 1998

US-PAT-NO: 5851829

DOCUMENT-IDENTIFIER: US 5851829 A

TITLE: Method of intracellular binding of target molecules

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KIMC	Draw D
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☐ 97. Document ID: US 5849869 A

L13: Entry 97 of 201

File: USPT

Dec 15, 1998

US-PAT-NO: 5849869

DOCUMENT-IDENTIFIER: US 5849869 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Delta fragments and derivatives and methods based thereon

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D.
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☐ 98. Document ID: US 5849306 A

L13: Entry 98 of 201

File: USPT

Dec 15, 1998

US-PAT-NO: 5849306

DOCUMENT-IDENTIFIER: US 5849306 A

TITLE: Binding domains from Plasmodium vivax and Plasmodium falciparum erythrocyte binding proteins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D.
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☐ 99. Document ID: US 5844079 A

L13: Entry 99 of 201

File: USPT

Dec 1, 1998

US-PAT-NO: 5844079

DOCUMENT-IDENTIFIER: US 5844079 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Vertebrate embryonic pattern-inducing proteins, and uses related thereto

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D.
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☐ 100. Document ID: US 5837500 A

L13: Entry 100 of 201

File: USPT

Nov 17, 1998

US-PAT-NO: 5837500

DOCUMENT-IDENTIFIER: US 5837500 A

TITLE: Directed evolution of novel binding proteins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D.
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☐ 101. Document ID: US 5820871 A

L13: Entry 101 of 201

File: USPT

Oct 13, 1998

US-PAT-NO: 5820871

DOCUMENT-IDENTIFIER: US 5820871 A

TITLE: Recombinant negative strand RNA virus expression systems and vaccines

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMBL	Drawings
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☐ 102. Document ID: US 5808300 A

L13: Entry 102 of 201

File: USPT

Sep 15, 1998

US-PAT-NO: 5808300

DOCUMENT-IDENTIFIER: US 5808300 A

TITLE: Method and apparatus for imaging biological samples with MALDI MS

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMBL	Drawings
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☐ 103. Document ID: US 5800992 A

L13: Entry 103 of 201

File: USPT

Sep 1, 1998

US-PAT-NO: 5800992

DOCUMENT-IDENTIFIER: US 5800992 A

TITLE: Method of detecting nucleic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMBL	Drawings
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☐ 104. Document ID: US 5795860 A

L13: Entry 104 of 201

File: USPT

Aug 18, 1998

US-PAT-NO: 5795860

DOCUMENT-IDENTIFIER: US 5795860 A

\*\* See image for Certificate of Correction \*\*

TITLE: Analogs for specific oligosaccharide-protein interactions and uses therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KWIC	Draw D.
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☐ 105. Document ID: US 5795734 A

L13: Entry 105 of 201

File: USPT

Aug 18, 1998

US-PAT-NO: 5795734

DOCUMENT-IDENTIFIER: US 5795734 A

TITLE: EPH receptor ligands, and uses related thereto

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KWIC	Draw D.
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☐ 106. Document ID: US 5786199 A

L13: Entry 106 of 201

File: USPT

Jul 28, 1998

US-PAT-NO: 5786199

DOCUMENT-IDENTIFIER: US 5786199 A

TITLE: Recombinant negative strand RNA virus expression systems and vaccines

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KWIC	Draw D.
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☐ 107. Document ID: US 5773228 A

L13: Entry 107 of 201

File: USPT

Jun 30, 1998

US-PAT-NO: 5773228

DOCUMENT-IDENTIFIER: US 5773228 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Activation-dependent protein expressed on the surface of activated platelets and antibodies thereto

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KWIC	Draw D.
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☐ 108. Document ID: US 5773211 A

L13: Entry 108 of 201

File: USPT

Jun 30, 1998

US-PAT-NO: 5773211

DOCUMENT-IDENTIFIER: US 5773211 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Differentiation of HTLV-I and HTLV-II using synthetic peptides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	RMK	Draw D
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☐ 109. Document ID: US 5770456 A

L13: Entry 109 of 201

File: USPT

Jun 23, 1998

US-PAT-NO: 5770456

DOCUMENT-IDENTIFIER: US 5770456 A

TITLE: Cyclic nucleic acid and polypeptide arrays

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	RMK	Draw D
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☐ 110. Document ID: US 5759205 A

L13: Entry 110 of 201

File: USPT

Jun 2, 1998

US-PAT-NO: 5759205

DOCUMENT-IDENTIFIER: US 5759205 A

\*\* See image for Certificate of Correction \*\*

TITLE: Negatively charged polymeric electret implant

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	RMK	Draw D
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☐ 111. Document ID: US 5753788 A

L13: Entry 111 of 201

File: USPT

May 19, 1998

US-PAT-NO: 5753788

DOCUMENT-IDENTIFIER: US 5753788 A

TITLE: Photolabile nucleoside protecting groups

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	RMK	Draw D
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☐ 112. Document ID: US 5744305 A

L13: Entry 112 of 201

File: USPT

Apr 28, 1998

US-PAT-NO: 5744305

DOCUMENT-IDENTIFIER: US 5744305 A

TITLE: Arrays of materials attached to a substrate

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	RMK	Draw D
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☐ 113. Document ID: US 5744101 A

L13: Entry 113 of 201

File: USPT

Apr 28, 1998

US-PAT-NO: 5744101

DOCUMENT-IDENTIFIER: US 5744101 A

TITLE: Photolabile nucleoside protecting groups

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 114. Document ID: US 5736135 A

L13: Entry 114 of 201

File: USPT

Apr 7, 1998

US-PAT-NO: 5736135

DOCUMENT-IDENTIFIER: US 5736135 A

TITLE: Method for making variant secreted proteins with altered properties

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 115. Document ID: US 5723287 A

L13: Entry 115 of 201

File: USPT

Mar 3, 1998

US-PAT-NO: 5723287

DOCUMENT-IDENTIFIER: US 5723287 A

TITLE: Recombinant viruses displaying a nonviral polypeptide on their external surface

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 116. Document ID: US 5721104 A

L13: Entry 116 of 201

File: USPT

Feb 24, 1998

US-PAT-NO: 5721104

DOCUMENT-IDENTIFIER: US 5721104 A

\*\* See image for Certificate of Correction \*\*

TITLE: Screening assay for anti-HIV drugs

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 117. Document ID: US 5709862 A

L13: Entry 117 of 201

File: USPT

Jan 20, 1998

US-PAT-NO: 5709862  
DOCUMENT-IDENTIFIER: US 5709862 A

TITLE: Isolated protein from Eimeria useful as a cross species vaccine

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D.
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☐ 118. Document ID: US 5688642 A

L13: Entry 118 of 201

File: USPT

Nov 18, 1997

US-PAT-NO: 5688642  
DOCUMENT-IDENTIFIER: US 5688642 A

TITLE: Selective attachment of nucleic acid molecules to patterned self-assembled surfaces

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D.
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☐ 119. Document ID: US 5681746 A

L13: Entry 119 of 201

File: USPT

Oct 28, 1997

US-PAT-NO: 5681746  
DOCUMENT-IDENTIFIER: US 5681746 A

TITLE: Retroviral delivery of full length factor VIII

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D.
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☐ 120. Document ID: US 5679769 A

L13: Entry 120 of 201

File: USPT

Oct 21, 1997

US-PAT-NO: 5679769  
DOCUMENT-IDENTIFIER: US 5679769 A

TITLE: Synthesis of asparagine-linked glycopeptides on a polymeric solid support

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D.
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☐ 121. Document ID: US 5677274 A

L13: Entry 121 of 201

File: USPT

Oct 14, 1997

US-PAT-NO: 5677274  
DOCUMENT-IDENTIFIER: US 5677274 A  
\*\* See image for Certificate of Correction \*\*

TITLE: Anthrax toxin fusion proteins and related methods

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 122. Document ID: US 5661015 A

L13: Entry 122 of 201

File: USPT

Aug 26, 1997

US-PAT-NO: 5661015

DOCUMENT-IDENTIFIER: US 5661015 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Recombinant coccidiosis vaccines

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 123. Document ID: US 5661004 A

L13: Entry 123 of 201

File: USPT

Aug 26, 1997

US-PAT-NO: 5661004

DOCUMENT-IDENTIFIER: US 5661004 A

TITLE: Lymphotoxin-.beta., lymphotoxin-.beta. complexes, pharmaceutical preparations and therapeutic uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 124. Document ID: US 5656451 A

L13: Entry 124 of 201

File: USPT

Aug 12, 1997

US-PAT-NO: 5656451

DOCUMENT-IDENTIFIER: US 5656451 A

TITLE: OspE, OspF, and S1 polypeptides in borrelia burgdorferi

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 125. Document ID: US 5654145 A

L13: Entry 125 of 201

File: USPT

Aug 5, 1997

US-PAT-NO: 5654145

DOCUMENT-IDENTIFIER: US 5654145 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Trophinin and trophinin-assisting nucleic acids and methods of detection thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMOC	Draw D
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☐ 126. Document ID: US 5639619 A

L13: Entry 126 of 201

File: USPT

Jun 17, 1997

US-PAT-NO: 5639619

DOCUMENT-IDENTIFIER: US 5639619 A

\*\* See image for Certificate of Correction \*\*

TITLE: Screening assay for anti-HIV drugs using the Vpr gene

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMOC	Draw D
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☐ 127. Document ID: US 5629162 A

L13: Entry 127 of 201

File: USPT

May 13, 1997

US-PAT-NO: 5629162

DOCUMENT-IDENTIFIER: US 5629162 A

TITLE: Method of identifying agents which modulate ICAM-3 binding to LFA-1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMOC	Draw D
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☒ 128. Document ID: US 5624711 A

L13: Entry 128 of 201

File: USPT

Apr 29, 1997

US-PAT-NO: 5624711

DOCUMENT-IDENTIFIER: US 5624711 A

TITLE: Derivatization of solid supports and methods for oligomer synthesis

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMOC	Draw D
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☐ 129. Document ID: US 5622826 A

L13: Entry 129 of 201

File: USPT

Apr 22, 1997

US-PAT-NO: 5622826

DOCUMENT-IDENTIFIER: US 5622826 A

TITLE: Method for immobilization of molecules on platinum solid support surfaces

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMOC	Draw D
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☐ 130. Document ID: US 5599918 A

L13: Entry 130 of 201

File: USPT

Feb 4, 1997

US-PAT-NO: 5599918

DOCUMENT-IDENTIFIER: US 5599918 A

TITLE: Nucleic acids encoding trophinin and trophinin-assisting proteins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	RMNC	Draw D
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☐ 131. Document ID: US 5596072 A

L13: Entry 131 of 201

File: USPT

Jan 21, 1997

US-PAT-NO: 5596072

DOCUMENT-IDENTIFIER: US 5596072 A

TITLE: Method of refolding human IL-13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	RMNC	Draw D
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☐ 132. Document ID: US 5593877 A

L13: Entry 132 of 201

File: USPT

Jan 14, 1997

US-PAT-NO: 5593877

DOCUMENT-IDENTIFIER: US 5593877 A

TITLE: Nucleic acid and recombinant production of vespid venom hyaluronidase

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	RMNC	Draw D
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☐ 133. Document ID: US 5591669 A

L13: Entry 133 of 201

File: USPT

Jan 7, 1997

US-PAT-NO: 5591669

DOCUMENT-IDENTIFIER: US 5591669 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Transgenic mice depleted in a mature lymphocytic cell-type

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	RMNC	Draw D
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☐ 134. Document ID: US 5591631 A

L13: Entry 134 of 201

File: USPT

Jan 7, 1997

US-PAT-NO: 5591631



DOCUMENT-IDENTIFIER: US 5591631 A

TITLE: Anthrax toxin fusion proteins, nucleic acid encoding same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 135. Document ID: US 5589458 A

L13: Entry 135 of 201

File: USPT

Dec 31, 1996

US-PAT-NO: 5589458

DOCUMENT-IDENTIFIER: US 5589458 A

TITLE: Compounds that inhibit T cell proliferation and methods for using the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 136. Document ID: US 5585264 A

L13: Entry 136 of 201

File: USPT

Dec 17, 1996

US-PAT-NO: 5585264

DOCUMENT-IDENTIFIER: US 5585264 A

TITLE: Nucleotide sequences encoding recombinant bovine herpesvirus type-1 GI, GIII and GIV polypeptides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 137. Document ID: US 5580780 A

L13: Entry 137 of 201

File: USPT

Dec 3, 1996

US-PAT-NO: 5580780

DOCUMENT-IDENTIFIER: US 5580780 A

TITLE: Vascular adhesion protein-(VAP-1) and VAP-1-specific antibodies

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 138. Document ID: US 5578325 A

L13: Entry 138 of 201

File: USPT

Nov 26, 1996

US-PAT-NO: 5578325

DOCUMENT-IDENTIFIER: US 5578325 A

TITLE: Nanoparticles and microparticles of non-linear hydrophilic-hydrophobic multiblock copolymers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	MMOC	Draw D.
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☐ 139. Document ID: US 5571698 A

L13: Entry 139 of 201

File: USPT

Nov 5, 1996

US-PAT-NO: 5571698

DOCUMENT-IDENTIFIER: US 5571698 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Directed evolution of novel binding proteins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	MMOC	Draw D.
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☐ 140. Document ID: US 5559223 A

L13: Entry 140 of 201

File: USPT

Sep 24, 1996

US-PAT-NO: 5559223

DOCUMENT-IDENTIFIER: US 5559223 A

TITLE: Synthetic storage proteins with defined structure containing programmable levels of essential amino acids for improvement of the nutritional value of plants

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	MMOC	Draw D.
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☐ 141. Document ID: US 5547932 A

L13: Entry 141 of 201

File: USPT

Aug 20, 1996

US-PAT-NO: 5547932

DOCUMENT-IDENTIFIER: US 5547932 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Composition for introducing nucleic acid complexes into higher eucaryotic cells

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	MMOC	Draw D.
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☐ 142. Document ID: US 5545549 A

L13: Entry 142 of 201

File: USPT

Aug 13, 1996

US-PAT-NO: 5545549

DOCUMENT-IDENTIFIER: US 5545549 A

TITLE: DNA encoding a human neuropeptide Y/peptide YY (Y2) receptor and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMNC	Draw D.
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☐ 143. Document ID: US 5537194 A

L13: Entry 143 of 201

File: USPT

Jul 16, 1996

US-PAT-NO: 5537194

DOCUMENT-IDENTIFIER: US 5537194 A

TITLE: Liquid developer compatible intermediate toner transfer member

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMNC	Draw D.
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☐ 144. Document ID: US 5534121 A

L13: Entry 144 of 201

File: USPT

Jul 9, 1996

US-PAT-NO: 5534121

DOCUMENT-IDENTIFIER: US 5534121 A

TITLE: Preparative two dimensional gel electrophoresis system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMNC	Draw D.
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☐ 145. Document ID: US 5532132 A

L13: Entry 145 of 201

File: USPT

Jul 2, 1996

US-PAT-NO: 5532132

DOCUMENT-IDENTIFIER: US 5532132 A

TITLE: Method for regulating formation of a complex of plasminogen activator, its receptor and inhibitor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMNC	Draw D.
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☒ 146. Document ID: US 5527681 A

L13: Entry 146 of 201

File: USPT

Jun 18, 1996

US-PAT-NO: 5527681

DOCUMENT-IDENTIFIER: US 5527681 A

TITLE: Immobilized molecular synthesis of systematically substituted compounds

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMNC	Draw D.
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☐ 147. Document ID: US 5527679 A

L13: Entry 147 of 201

File: USPT

Jun 18, 1996

US-PAT-NO: 5527679

DOCUMENT-IDENTIFIER: US 5527679 A

TITLE: .beta..sub.5 protein and DNA encoding the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMMC	Draw. D.
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☐ 148. Document ID: US 5516890 A

L13: Entry 148 of 201

File: USPT

May 14, 1996

US-PAT-NO: 5516890

DOCUMENT-IDENTIFIER: US 5516890 A

TITLE: Biologically mimetic synthetic ion channel transducers and methods of making the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMMC	Draw. D.
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☐ 149. Document ID: US 5516637 A

L13: Entry 149 of 201

File: USPT

May 14, 1996

US-PAT-NO: 5516637

DOCUMENT-IDENTIFIER: US 5516637 A

TITLE: Method involving display of protein binding pairs on the surface of bacterial pili and bacteriophage

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMMC	Draw. D.
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☐ 150. Document ID: US 5512442 A

L13: Entry 150 of 201

File: USPT

Apr 30, 1996

US-PAT-NO: 5512442

DOCUMENT-IDENTIFIER: US 5512442 A

\*\* See image for Certificate of Correction \*\*

TITLE: Detection of vascular adhesion protein-1 (VAP-1)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMMC	Draw. D.
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☐ 151. Document ID: US 5510270 A

L13: Entry 151 of 201

File: USPT

Apr 23, 1996

US-PAT-NO: 5510270

DOCUMENT-IDENTIFIER: US 5510270 A

TITLE: Synthesis and screening of immobilized oligonucleotide arrays

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstracts	Claims	Keywords	Drawings
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☐ 152. Document ID: US 5498414 A

L13: Entry 152 of 201

File: USPT

Mar 12, 1996

US-PAT-NO: 5498414

DOCUMENT-IDENTIFIER: US 5498414 A

TITLE: Attenuated strains of *Aeromonas salmonicida* useful as fish vaccines

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstracts	Claims	Keywords	Drawings
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☐ 153. Document ID: US 5494671 A

L13: Entry 153 of 201

File: USPT

Feb 27, 1996

US-PAT-NO: 5494671

DOCUMENT-IDENTIFIER: US 5494671 A

\*\* See image for Certificate of Correction \*\*

TITLE: C-terminally truncated dengue and Japanese encephalitis virus envelope proteins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstracts	Claims	Keywords	Drawings
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☐ 154. Document ID: US 5489678 A

L13: Entry 154 of 201

File: USPT

Feb 6, 1996

US-PAT-NO: 5489678

DOCUMENT-IDENTIFIER: US 5489678 A

\*\* See image for Certificate of Correction \*\*

TITLE: Photolabile nucleoside and peptide protecting groups

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D.
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☐ 155. Document ID: US 5485277 A

L13: Entry 155 of 201

File: USPT

Jan 16, 1996

US-PAT-NO: 5485277

DOCUMENT-IDENTIFIER: US 5485277 A

TITLE: Surface plasmon resonance sensor and methods for the utilization thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D.
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☒ 156. Document ID: US 5482867 A

L13: Entry 156 of 201

File: USPT

Jan 9, 1996

US-PAT-NO: 5482867

DOCUMENT-IDENTIFIER: US 5482867 A

TITLE: Spatially-addressable immobilization of anti-ligands on surfaces

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D.
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☐ 157. Document ID: US 5482713 A

L13: Entry 157 of 201

File: USPT

Jan 9, 1996

US-PAT-NO: 5482713

DOCUMENT-IDENTIFIER: US 5482713 A

TITLE: Equine herpesvirus recombinant poxvirus vaccine

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D.
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☐ 158. Document ID: US 5468620 A

L13: Entry 158 of 201

File: USPT

Nov 21, 1995

US-PAT-NO: 5468620

DOCUMENT-IDENTIFIER: US 5468620 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Methods and device for glycosylation analysis

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D.
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☒ 159. Document ID: US 5451683 A

L13: Entry 159 of 201

File: USPT

Sep 19, 1995

US-PAT-NO: 5451683

DOCUMENT-IDENTIFIER: US 5451683 A

TITLE: Spatially-addressable immobilization of anti-ligands on surfaces

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	EMMC	Drawings
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☐ 160. Document ID: US 5446132 A

L13: Entry 160 of 201

File: USPT

Aug 29, 1995

US-PAT-NO: 5446132

DOCUMENT-IDENTIFIER: US 5446132 A

\*\* See image for Certificate of Correction \*\*

TITLE: Thrombin-activated platelet protein-2 (TAPP-2)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	EMMC	Drawings
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☐ 161. Document ID: US 5445934 A

L13: Entry 161 of 201

File: USPT

Aug 29, 1995

US-PAT-NO: 5445934

DOCUMENT-IDENTIFIER: US 5445934 A

TITLE: Array of oligonucleotides on a solid substrate

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	EMMC	Drawings
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☐ 162. Document ID: US 5434340 A

L13: Entry 162 of 201

File: USPT

Jul 18, 1995

US-PAT-NO: 5434340

DOCUMENT-IDENTIFIER: US 5434340 A

TITLE: Transgenic mice depleted in mature T-cells and methods for making transgenic mice

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	EMMC	Drawings
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☐ 163. Document ID: US 5424186 A

L13: Entry 163 of 201

File: USPT

Jun 13, 1995



US-PAT-NO: 5424186

DOCUMENT-IDENTIFIER: US 5424186 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Very large scale immobilized polymer synthesis

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNOW	Draw/Di
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☐ 164. Document ID: US 5422428 A

L13: Entry 164 of 201

File: USPT

Jun 6, 1995

US-PAT-NO: 5422428

DOCUMENT-IDENTIFIER: US 5422428 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Immunization against babesiosis using purified surface antigens of Babesia bigemina and similar immunogens

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNOW	Draw/Di
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☐ 165. Document ID: US 5413804 A

L13: Entry 165 of 201

File: USPT

May 9, 1995

US-PAT-NO: 5413804

DOCUMENT-IDENTIFIER: US 5413804 A

TITLE: Process for making whey-derived fat substitute product and products thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNOW	Draw/Di
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☐ 166. Document ID: US 5405783 A

L13: Entry 166 of 201

File: USPT

Apr 11, 1995

US-PAT-NO: 5405783

DOCUMENT-IDENTIFIER: US 5405783 A

TITLE: Large scale photolithographic solid phase synthesis of an array of polymers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNOW	Draw/Di
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☐ 167. Document ID: US 5403484 A

L13: Entry 167 of 201

File: USPT

Apr 4, 1995

US-PAT-NO: 5403484

DOCUMENT-IDENTIFIER: US 5403484 A

TITLE: Viruses expressing chimeric binding proteins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D.
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☒ 168. Document ID: US 5391463 A

L13: Entry 168 of 201

File: USPT

Feb 21, 1995

US-PAT-NO: 5391463

DOCUMENT-IDENTIFIER: US 5391463 A

TITLE: Surface modification to create regions resistant to adsorption of biomolecules

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D.
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☐ 169. Document ID: US 5372719 A

L13: Entry 169 of 201

File: USPT

Dec 13, 1994

US-PAT-NO: 5372719

DOCUMENT-IDENTIFIER: US 5372719 A

TITLE: Molecular imaging

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D.
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☐ 170. Document ID: US 5368712 A

L13: Entry 170 of 201

File: USPT

Nov 29, 1994

US-PAT-NO: 5368712

DOCUMENT-IDENTIFIER: US 5368712 A

\*\* See image for Certificate of Correction \*\*

TITLE: Biologically mimetic synthetic ion channel transducers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D.
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☐ 171. Document ID: US 5366874 A

L13: Entry 171 of 201

File: USPT

Nov 22, 1994

US-PAT-NO: 5366874

DOCUMENT-IDENTIFIER: US 5366874 A

TITLE: Molecular cloning and expression of biologically-active diphtheria toxin receptor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMNC	Draw D.
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☐ 172. Document ID: US 5362833 A

L13: Entry 172 of 201

File: USPT

Nov 8, 1994

US-PAT-NO: 5362833

DOCUMENT-IDENTIFIER: US 5362833 A

TITLE: Phenolic polysiloxane-containing coated articles useful as toner fusing members

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMNC	Draw D.
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☐ 173. Document ID: US 5340727 A

L13: Entry 173 of 201

File: USPT

Aug 23, 1994

US-PAT-NO: 5340727

DOCUMENT-IDENTIFIER: US 5340727 A

TITLE: GPIb.alpha. fragments and recombinant DNA expression vectors

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMNC	Draw D.
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☐ 174. Document ID: US 5338683 A

L13: Entry 174 of 201

File: USPT

Aug 16, 1994

US-PAT-NO: 5338683

DOCUMENT-IDENTIFIER: US 5338683 A

TITLE: Vaccinia virus containing DNA sequences encoding herpesvirus glycoproteins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMNC	Draw D.
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☒ 175. Document ID: US 5330911 A

L13: Entry 175 of 201

File: USPT

Jul 19, 1994

US-PAT-NO: 5330911

DOCUMENT-IDENTIFIER: US 5330911 A

\*\* See image for Certificate of Correction \*\*

TITLE: Surfaces having desirable cell adhesive effects

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMNC	Draw D.
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☐ 176. Document ID: US 5330840 A

L13: Entry 176 of 201

File: USPT

Jul 19, 1994

US-PAT-NO: 5330840

DOCUMENT-IDENTIFIER: US 5330840 A

\*\* See image for Certificate of Correction \*\*

TITLE: Polysiloxane containing polyurethane and coated articles useful as toner fusing members

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Attachments	Claims	KWIC	Drawings
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☐ 177. Document ID: US 5279960 A

L13: Entry 177 of 201

File: USPT

Jan 18, 1994

US-PAT-NO: 5279960

DOCUMENT-IDENTIFIER: US 5279960 A

TITLE: 25 KD coccidial antigen of eimeria tenella

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Attachments	Claims	KWIC	Drawings
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☐ 178. Document ID: US 5252743 A

L13: Entry 178 of 201

File: USPT

Oct 12, 1993

US-PAT-NO: 5252743

DOCUMENT-IDENTIFIER: US 5252743 A

TITLE: Spatially-addressable immobilization of anti-ligands on surfaces

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Attachments	Claims	KWIC	Drawings
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☐ 179. Document ID: US 5233008 A

L13: Entry 179 of 201

File: USPT

Aug 3, 1993

US-PAT-NO: 5233008

DOCUMENT-IDENTIFIER: US 5233008 A

TITLE: Polymeric diols, polyurethanes and coated articles useful as toner fusing members

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Attachments	Claims	KWIC	Drawings
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☐ 180. Document ID: US 5223409 A

L13: Entry 180 of 201

File: USPT

Jun 29, 1993

US-PAT-NO: 5223409  
DOCUMENT-IDENTIFIER: US 5223409 A

TITLE: Directed evolution of novel binding proteins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 181. Document ID: US 5223408 A

L13: Entry 181 of 201

File: USPT

Jun 29, 1993

US-PAT-NO: 5223408  
DOCUMENT-IDENTIFIER: US 5223408 A

TITLE: Method for making variant secreted proteins with altered properties

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 182. Document ID: US 5200508 A

L13: Entry 182 of 201

File: USPT

Apr 6, 1993

US-PAT-NO: 5200508  
DOCUMENT-IDENTIFIER: US 5200508 A

TITLE: Cell surface antigen that binds with L6 monoclonal antibody

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 183. Document ID: US 5200284 A

L13: Entry 183 of 201

File: USPT

Apr 6, 1993

US-PAT-NO: 5200284  
DOCUMENT-IDENTIFIER: US 5200284 A

TITLE: Melamine-cured polyester-amide coated articles useful as toner fusing members

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 184. Document ID: US 5198346 A

L13: Entry 184 of 201

File: USPT

Mar 30, 1993

US-PAT-NO: 5198346  
DOCUMENT-IDENTIFIER: US 5198346 A

TITLE: Generation and selection of novel DNA-binding proteins and polypeptides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 185. Document ID: US 5187080 A

L13: Entry 185 of 201

File: USPT

Feb 16, 1993

US-PAT-NO: 5187080

DOCUMENT-IDENTIFIER: US 5187080 A

TITLE: DNA encoding an antigenic protein derived from Eimeria tenella and vaccines for prevention of coccidiosis caused by Eimeria tenella

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 186. Document ID: US 5185432 A

L13: Entry 186 of 201

File: USPT

Feb 9, 1993

US-PAT-NO: 5185432

DOCUMENT-IDENTIFIER: US 5185432 A

TITLE: Monoclonal antibodies and antigen for human non-small cell lung carcinoma and other certain human carcinomas

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 187. Document ID: US 5175384 A

L13: Entry 187 of 201

File: USPT

Dec 29, 1992

US-PAT-NO: 5175384

DOCUMENT-IDENTIFIER: US 5175384 A

TITLE: Transgenic mice depleted in mature T-cells and methods for making transgenic mice

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☒ 188. Document ID: US 5143854 A

L13: Entry 188 of 201

File: USPT

Sep 1, 1992

US-PAT-NO: 5143854

DOCUMENT-IDENTIFIER: US 5143854 A

TITLE: Large scale photolithographic solid phase synthesis of polypeptides and receptor binding screening thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 189. Document ID: US 5141868 A

L13: Entry 189 of 201

File: USPT

Aug 25, 1992

US-PAT-NO: 5141868

DOCUMENT-IDENTIFIER: US 5141868 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Device for use in chemical test procedures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 190. Document ID: US 5107104 A

L13: Entry 190 of 201

File: USPT

Apr 21, 1992

US-PAT-NO: 5107104

DOCUMENT-IDENTIFIER: US 5107104 A

TITLE: Photoelectric transducer having photosensitive chromoprotein film, i.e. bacteriorhodopsin

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 191. Document ID: US 5096815 A

L13: Entry 191 of 201

File: USPT

Mar 17, 1992

US-PAT-NO: 5096815

DOCUMENT-IDENTIFIER: US 5096815 A

TITLE: Generation and selection of novel DNA-binding proteins and polypeptides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 192. Document ID: US 5081005 A

L13: Entry 192 of 201

File: USPT

Jan 14, 1992

US-PAT-NO: 5081005

DOCUMENT-IDENTIFIER: US 5081005 A

TITLE: Method for reducing chemical interaction between copper features and photosensitive dielectric compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 193. Document ID: US 4980462 A

L13: Entry 193 of 201

File: USPT

Dec 25, 1990

US-PAT-NO: 4980462

DOCUMENT-IDENTIFIER: US 4980462 A

TITLE: Antiviral agents

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D
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☐ 194. Document ID: US 4978503 A

L13: Entry 194 of 201

File: USPT

Dec 18, 1990

US-PAT-NO: 4978503

DOCUMENT-IDENTIFIER: US 4978503 A

\*\* See image for Certificate of Correction \*\*

TITLE: Devices for use in chemical test procedures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D
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☐ 195. Document ID: US 4927742 A

L13: Entry 195 of 201

File: USPT

May 22, 1990

US-PAT-NO: 4927742

DOCUMENT-IDENTIFIER: US 4927742 A

TITLE: Multilayer printed wiring boards

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D
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☐ 196. Document ID: US 4886743 A

L13: Entry 196 of 201

File: USPT

Dec 12, 1989

US-PAT-NO: 4886743

DOCUMENT-IDENTIFIER: US 4886743 A

TITLE: Diagnostic reagents based on unique sequences within the variable region of the T cell receptor and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D
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☐ 197. Document ID: US 4859769 A

L13: Entry 197 of 201

File: USPT

Aug 22, 1989



US-PAT-NO: 4859769  
DOCUMENT-IDENTIFIER: US 4859769 A

TITLE: Antiviral agents

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Drawings
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☐ 198. Document ID: US 4804575 A

L13: Entry 198 of 201

File: USPT

Feb 14, 1989

US-PAT-NO: 4804575  
DOCUMENT-IDENTIFIER: US 4804575 A

TITLE: Multilayer printed wiring boards

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Drawings
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☐ 199. Document ID: US 4760135 A

L13: Entry 199 of 201

File: USPT

Jul 26, 1988

US-PAT-NO: 4760135  
DOCUMENT-IDENTIFIER: US 4760135 A

TITLE: Phloretin and phlorizin derivative containing compounds

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Drawings
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☐ 200. Document ID: US 4443431 A

L13: Entry 200 of 201

File: USPT

Apr 17, 1984

US-PAT-NO: 4443431  
DOCUMENT-IDENTIFIER: US 4443431 A

TITLE: Neisseria gonorrhoeae vaccine

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Drawings
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☐ 1. Document ID: US 20040146885 A1

Using default format because multiple data bases are involved.

L42: Entry 1 of 31

File: PGPB

Jul 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040146885

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040146885 A1

TITLE: Multiplexing array techniques

PUBLICATION-DATE: July 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tran, Nathaniel Tue	Irvine	CA	US	

US-CL-CURRENT: 435/6; 435/7.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 20040142974 A1

L42: Entry 2 of 31

File: PGPB

Jul 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040142974

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040142974 A1

TITLE: 4,4-disubstituted piperidines, and methods of use thereof

PUBLICATION-DATE: July 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hoemann, Michael Z.	Marlborough	MA	US	

US-CL-CURRENT: 514/326; 514/317, 546/207, 546/236

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 20040136962 A1

L42: Entry 3 of 31

File: PGPB

Jul 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040136962

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040136962 A1

TITLE: Ordered molecular presetation of antigens, method of preparation and use

PUBLICATION-DATE: July 15, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Renner, Wolfgang A.	Zurich		CH	
Hennecke, Frank	Zurich		CH	
Nieba, Lars	Winterthur		CH	
Bachmann, Martin	Winterthur		CH	

US-CL-CURRENT: 424/93.2; 424/199.1, 435/235.1, 435/5, 435/7.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw D
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☐ 4. Document ID: US 20040132220 A1

L42: Entry 4 of 31

File: PGPB

Jul 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040132220

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040132220 A1

TITLE: Diagnostic instruments and methods for detecting analytes

PUBLICATION-DATE: July 8, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fish, Leonard	Newport Beach	CA	US	

US-CL-CURRENT: 436/525

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw D
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☐ 5. Document ID: US 20040092396 A1

L42: Entry 5 of 31

File: PGPB

May 13, 2004

PGPUB-DOCUMENT-NUMBER: 20040092396

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040092396 A1

TITLE: Porous silica substrates for polymer synthesis and assays

PUBLICATION-DATE: May 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glazer, Marc I.	Stanford	CA	US	
Fidanza, Jacqueline A.	San Francisco	CA	US	
McGall, Glenn	Mountain View	CA	US	
Frank, Curtis W.	Cupertino	CA	US	
Vinci, Richard	Easton	PA	US	

US-CL-CURRENT: 502/439; 428/304.4, 65/17.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	WMO	Draw D
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☐ 6. Document ID: US 20040077706 A1

L42: Entry 6 of 31

File: PGPB

Apr 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040077706

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040077706 A1

TITLE: Ligands for monoamine receptors and transporters, and methods of use thereof

PUBLICATION-DATE: April 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Aquila, Brian M.	Marlborough	MA	US	
Bannister, Thomas D.	Northborough	MA	US	
Cuny, Gregory D.	Somerville	MA	US	
Hauske, James R.	Concord	MA	US	
Holland, Joanne M.	Brookline	MA	US	
Persons, Paul E.	Westborough	MA	US	
Radeke, Heike	S. Grafton	MA	US	
Wang, Fengjiang	Northborough	MA	US	
Shao, Liming	Lincoln	MA	US	

US-CL-CURRENT: 514/419

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	WMO	Draw D
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☐ 7. Document ID: US 20040077090 A1

L42: Entry 7 of 31

File: PGPB

Apr 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040077090

PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040077090 A1

TITLE: Whole cell engineering by mutagenizing a substantial portion of a starting genome, combining mutations, and optionally repeating

PUBLICATION-DATE: April 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Short, Jay M.	Rancho Santa Fe	CA	US	

US-CL-CURRENT: 435/471; 435/252.3, 435/254.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 8. Document ID: US 20040077006 A1

L42: Entry 8 of 31

File: PGPB

Apr 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040077006  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040077006 A1

TITLE: Methods for manufacturing arrays

PUBLICATION-DATE: April 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bass, Jay K.	Mountain View	CA	US	
McEntee, John F.	Boulder Creek	CA	US	
Lazaruk, Tim J.	Redwood City	CA	US	
Miremadi, Maryam Mobed-	Sunnyvale	CA	US	

US-CL-CURRENT: 435/6; 427/2.11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 9. Document ID: US 20040058390 A1

L42: Entry 9 of 31

File: PGPB

Mar 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040058390  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040058390 A1

TITLE: Methods for immobilizing polypeptides

PUBLICATION-DATE: March 25, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nock, Steffen	Redwood City	CA	US	
Sydor, Jens	Foster City	CA	US	

US-CL-CURRENT: 435/7.1; 427/2.11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 10. Document ID: US 20040053340 A1

L42: Entry 10 of 31

File: PGPB

Mar 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040053340

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040053340 A1

TITLE: Protein arrays

PUBLICATION-DATE: March 18, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
De Haard, Johannes Joseph	Vlaardingen		NL	
Hermans, Pim	Vlaardingen		NL	
Landa, Ilse	Vlaardingen		NL	
Verrips, Cornelis Theodorus	Vlaardingen		NL	

US-CL-CURRENT: 435/7.2; 435/287.2, 530/388.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 11. Document ID: US 20040038983 A1

L42: Entry 11 of 31

File: PGPB

Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040038983

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040038983 A1

TITLE: 3-aza- and 1,4-diaza-bicyclo[4.3.0]nonanes, and methods of use thereof

PUBLICATION-DATE: February 26, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hauske, James R.	Concord	MA	US	
Holland, Joanne M.	Brookline	MA	US	
Radeke, Heike S.	South Grafton	MA	US	

US-CL-CURRENT: 514/252.13; 514/255.03, 544/359, 544/400

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw D:
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☐ 12. Document ID: US 20040038307 A1

L42: Entry 12 of 31

File: PGPB

Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040038307

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040038307 A1

TITLE: Unique recognition sequences and methods of use thereof in protein analysis

PUBLICATION-DATE: February 26, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lee, Frank D.	Chestnut Hill	MA	US	
Meng, Xun	Newton	MA	US	
Chan, John W.	Acton	MA	US	
Zhang, Shengsheng	Quincy	MA	US	
Benkovic, Stephen J.	State College	PA	US	

US-CL-CURRENT: 435/7.1; 435/6, 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw D:
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☐ 13. Document ID: US 20040038268 A1

L42: Entry 13 of 31

File: PGPB

Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040038268

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040038268 A1

TITLE: Support bound probes and methods of analysis using the same

PUBLICATION-DATE: February 26, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Pirrung, Michael C.	Chapel Hill	NC	US	
Stryer, Lubert	Stanford	CA	US	
Fodor, Stephen P.A.	Palo Alto	CA	US	
Read, J. Leighton	Palo Alto	CA	US	

US-CL-CURRENT: 435/6; 435/7.1, 436/518



Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 14. Document ID: US 20040014644 A1

L42: Entry 14 of 31

File: PGPB

Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040014644

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040014644 A1

TITLE: Oligonucleotide analogues and methods of use for modulating gene expression

PUBLICATION-DATE: January 22, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Efimov, Vladimir	Moscow	CA	RU	
Fernandez, Joseph	Carlsbad	CA	US	
Archdeacon, Dorothy	Carlsbad	CA	US	
Archdeacon, John	Carlsbad	CA	US	
Choob, Mikhail	Carlsbad		US	

US-CL-CURRENT: 514/8; 514/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 15. Document ID: US 20040014087 A1

L42: Entry 15 of 31

File: PGPB

Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040014087

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040014087 A1

TITLE: Molecules for diagnostics and therapeutics

PUBLICATION-DATE: January 22, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hodgson, David M.	Ann Arbor	MI	US	
Lincoln, Stephen E.	Potomac	MD	US	
Russo, Frank D.	Sunnyvale	CA	US	
Albany, Peter A.	Berkeley	CA	US	
Banville, Steve C.	Sunnyvale	CA	US	
Bratcher, Shawn R.	Mountain View	CA	US	
Dufour, Gerard E.	Castro Valley	CA	US	
Cohen, Howard J.	Palo Alto	CA	US	
Rosen, Bruce H.	Menlo Park	CA	US	

Chalup, Michael S.	Livingston	TX	US
Jackson, Jennifer L.	Santa Cruz	CA	US
Jones, Anissa L.	San Jose	CA	US
Yu, Jimmy Y.	Fremont	CA	US
Greenawalt, Lila B.	San Jose	CA	US
Panzer, Scott R.	Sunnyvale	CA	US
Roseberry Lincoln, Ann M.	Potomac	MD	US
Wright, Rachel J.	Merivale	CA	NZ
Daniels, Susan E.	Mountain View		US

US-CL-CURRENT: 435/6, 435/183, 435/320.1, 435/325, 435/69.1, 435/7.1, 530/388.26,  
536/23.2, 800/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw Ds
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☐ 16. Document ID: US 20040010378 A1

L42: Entry 16 of 31

File: PGPB

Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040010378

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040010378 A1

TITLE: Transcription factor profiling on a solid surface

PUBLICATION-DATE: January 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	ROLE-47
Nelson, Bryce P.	Madison	WI	US	

US-CL-CURRENT: 702/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw Ds
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☐ 17. Document ID: US 20040009516 A1

L42: Entry 17 of 31

File: PGPB

Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040009516

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040009516 A1

TITLE: Arrayed SPR prism

PUBLICATION-DATE: January 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nelson, Bryce P.	Madison	WI	US	

Strother, Todd C.                      Grove                      WI                      US

US-CL-CURRENT: 435/6; 356/300, 435/287.2, 435/7.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 18. Document ID: US 20040002058 A1

L42: Entry 18 of 31

File: PGPB

Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002058

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040002058 A1

TITLE: Chimeric capsid proteins and uses thereof

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cosenza, Larry	Birmingham	AL	US	

US-CL-CURRENT: 435/5; 530/350, 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 19. Document ID: US 20030235868 A1

L42: Entry 19 of 31

File: PGPB

Dec 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030235868

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030235868 A1

TITLE: Antibodies specific for mucin polypeptide

PUBLICATION-DATE: December 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hoogenboom, Hendricus R.J.M.	Maastricht	MA	NL	
Godelieve, Maria Paulina	Hasselt		BE	
Edge, Albert S.B.	Newton		US	

US-CL-CURRENT: 435/7.2; 530/317, 530/388.25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 20. Document ID: US 20030235853 A1

L42: Entry 20 of 31

File: PGPB

Dec 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030235853

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030235853 A1

TITLE: Very large scale immobilized polymer synthesis

PUBLICATION-DATE: December 25, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stryer, Lubert	Stanford	CA	US	
Fodor, Stephen P.A.	Palo Alto	CA	US	
Read, J. Leighton	Palo Alto	CA	US	
Pirrung, Michael C.	Durham	NC	US	

US-CL-CURRENT: 435/6; 427/2.11, 435/7.1, 530/333, 536/25.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw D
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☐ 21. Document ID: US 20030235818 A1

L42: Entry 21 of 31

File: PGPB

Dec 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030235818

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030235818 A1

TITLE: Immunogenic peptides, and method of identifying same

PUBLICATION-DATE: December 25, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Katritch, Vsevolod	San Diego	CA	US	
Bordner, Andrew	San Diego	CA	US	
Deans, Robert	Claremont	CA	US	
Sumner, Mary	San Diego	CA	US	

US-CL-CURRENT: 435/5; 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw D
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☐ 22. Document ID: US 20030232452 A1

L42: Entry 22 of 31

File: PGPB

Dec 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030232452  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030232452 A1

TITLE: Linkers for synthesis of oligosaccharides on solid supports

PUBLICATION-DATE: December 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Seeberger, Peter H.	Cambridge	MA	US	
Andrade, Rodrigo B.	Cambridge	MA	US	

US-CL-CURRENT: 436/518; 525/54.2, 536/124, 536/18.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. D.
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☐ 23. Document ID: US 20030232382 A1

L42: Entry 23 of 31

File: PGPB

Dec 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030232382  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030232382 A1

TITLE: Method and apparatus for performing large numbers of reactions using array assembly

PUBLICATION-DATE: December 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brennan, Thomas M.	San Francisco	CA	US	
Chatelain, Francois	San Francisco	CA	US	
Berninger, Mark	North Potomac	MD	US	

US-CL-CURRENT: 435/6; 435/287.2, 435/7.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. D.
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☐ 24. Document ID: US 20030232379 A1

L42: Entry 24 of 31

File: PGPB

Dec 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030232379  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030232379 A1

TITLE: Methods of performing array based assays and compositions for practicing the same

PUBLICATION-DATE: December 18, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Amorese, Douglas A.	Los Altos	CA	US	
Caren, Michael P.	Palo Alto	CA	US	
Schleifer, Arthur	Portola Valley	CA	US	
Holcomb, Nelson R.	Palo Alto	CA	US	

US-CL-CURRENT: 435/6; 427/2.11, 435/287.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw D
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☐ 25. Document ID: US 20030223994 A1

L42: Entry 25 of 31

File: PGPB

Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030223994

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030223994 A1

TITLE: MHC-peptide complex binding ligands

PUBLICATION-DATE: December 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hoogenboom, Henricus Renerus Jacobus Mattheus	Maastricht		NL	
Reiter, Yoram	Haifa		IL	

US-CL-CURRENT: 424/144.1; 435/320.1, 435/334, 435/372, 435/69.1, 435/7.2,  
530/388.22, 536/23.53

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw D
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☐ 26. Document ID: US 20030216322 A1

L42: Entry 26 of 31

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030216322

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030216322 A1

TITLE: Peptides for recognition and targeting of GLIAL cell tumors

PUBLICATION-DATE: November 20, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Samoylova, Tatiana I.	Auburn	AL	US	

Petrenko, Valery A.	Auburn	AL	US
Cox, Nancy R.	Auburn	AL	US
Morrison, Nancy E.	Auburn	AL	US
Baker, Henry J.	Auburn	AL	US
Globa, Ludmila P.	Auburn	AL	US

US-CL-CURRENT: 514/16; 435/235.1, 435/320.1, 435/325, 435/69.1, 530/328, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Draw D
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☐ 27. Document ID: US 20030216315 A1

L42: Entry 27 of 31

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030216315  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030216315 A1

TITLE: Modulation of immune response by non-peptide binding stress response polypeptides

PUBLICATION-DATE: November 20, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nicchitta, Christopher V.	Durham	NC	US	
Baker-LePain, Julie C.	Durham	NC	US	

US-CL-CURRENT: 514/12; 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Draw D
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☐ 28. Document ID: US 20030202938 A1

L42: Entry 28 of 31

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030202938  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030202938 A1

TITLE: Hematopoietic growth factor inducible neurokinin-1 gene

PUBLICATION-DATE: October 30, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rameshwar, Pranela	Maplewood	NJ	US	

US-CL-CURRENT: 424/1.49; 424/145.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D.
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☐ 29. Document ID: US 20030186311 A1

L42: Entry 29 of 31

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030186311

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030186311 A1

TITLE: Parallel analysis of molecular interactions

PUBLICATION-DATE: October 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Henderson, Eric	Ames	IA	US	
Johnson, James	St. Charles	IA	US	
Nettikadan, Saju	Ames	IA	US	

US-CL-CURRENT: 435/6; 435/7.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D.
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☐ 30. Document ID: US 20030186296 A1

L42: Entry 30 of 31

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030186296

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030186296 A1

TITLE: Expression monitoring by hybridization to high density oligonucleotide arrays

PUBLICATION-DATE: October 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fodor, Stephen P.A.	Palo Alto	CA	US	
Solas, Dennis W.	San Francisco	CA	US	
Dower, William J.	Menlo Park	CA	US	

US-CL-CURRENT: 435/6; 435/287.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D.
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☐ 31. Document ID: US 20030109006 A1



L42: Entry 31 of 31

File: PGPB

Jun 12, 2003

PGPUB-DOCUMENT-NUMBER: 20030109006

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030109006 A1

TITLE: Methods and compositions for generating human monoclonal antibodies

PUBLICATION-DATE: June 12, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Li, Ronghao	Stanford	CA	US	

US-CL-CURRENT: 435/70.21; 424/93.21, 435/372

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	WMO	Draw D
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☐ 1. Document ID: US 20040043388 A1

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L26: Entry 1 of 100

File: PGPB

Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040043388

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040043388 A1

TITLE: Three hybrid assay system

PUBLICATION-DATE: March 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Come, Jon H.	Cambridge	MA	US	
Becker, Frank	Planegg	MA	DE	
Kley, Nikolai A.	Wellesley		US	
Reichel, Christoph	Planegg		DE	

US-CL-CURRENT: [435/6](#); [435/7.1](#), [530/317](#), [530/350](#), [536/123](#), [536/23.1](#), [540/200](#), [546/1](#),  
[552/200](#), [552/500](#), [552/653](#), [556/118](#)

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KWC](#) [Drawings](#)

☐ 2. Document ID: US 20040023414 A1

L26: Entry 2 of 100

File: PGPB

Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040023414

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040023414 A1

TITLE: Self-assembling peptide surfaces for cell patterning and interactions

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zhang, Shuguang	Lexington	MA	US	
Rich, Alexander	Cambridge	MA	US	
Yan, Lin	Somerville	MA	US	

Whitesides, George

Newton

MA

US

US-CL-CURRENT: 436/518

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D.
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☐ 3. Document ID: US 20040009490 A1

L26: Entry 3 of 100

File: PGPB

Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040009490

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040009490 A1

TITLE: Polynucleotides, materials incorporating them, and methods for using them

PUBLICATION-DATE: January 15, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glenn, Matthew	Whenuapai		NZ	
Havukkala, Ilkka J.	Remuera		NZ	
Lubbers, Mark	Palmerston North		NZ	
Dekker, James	Palmerston North		NZ	

US-CL-CURRENT: 435/6; 435/252.3, 435/320.1, 435/69.1, 530/350, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D.
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☐ 4. Document ID: US 20040002584 A1

L26: Entry 4 of 100

File: PGPB

Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002584

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040002584 A1

TITLE: Proteins, polynucleotides encoding them and methods of using the same

PUBLICATION-DATE: January 1, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Pena, Carol E. A.	New Haven	CT	US	
Shimkets, Richard A.	Guilford	CT	US	
Li, Li	Branford	CT	US	
Shenoy, Suresh G.	Branford	CT	US	
Kekuda, Ramesh	Norwalk	CT	US	
Spytek, Kimberly A.	New Haven	CT	US	

Vernet, Corine A.M.	Branford	CT	US
Malyankar, Uriel M.	Branford	CT	US
Guo, Xiaojia (Sasha)	Branford	CT	US
Gusev, Vladimir Y.	Madison	CT	US
Casman, Stacie J.	North Haven	CT	US
Boldog, Ferenc L.	North Haven	CT	US
Furtak, Katarzyna	Ansonia	CT	US
Tchernev, Velizar T.	Branford	CT	US
Patturajan, Meera	Branford	CT	US
Gangolli, Esha A.	Madison	CT	US
Padigar, Muralidhara	Branford	CT	US
Liu, Xiaohong	Branford	CT	US
Baumgartner, Jason C.	New Haven	CT	US
Gerlach, Valerie	Branford	CT	US
Spaderna, Steven K.	Berlin	CT	US
Zerhusen, Bryan D.	Branford	CT	US

US-CL-CURRENT: 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Keywords	Drawings
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☐ 5. Document ID: US 20030215822 A1

L26: Entry 5 of 100

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030215822

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030215822 A1

TITLE: Secreted proteins

PUBLICATION-DATE: November 20, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Griffin, Jennifer A.	Fremont	CA	US	
Yao, Monique G.	Mountain View	CA	US	
Bruns, Christopher M.	Mountain View	CA	US	
Yue, Henry	Sunnyvale	CA	US	
Delegeane, Angelo M.	Milpitas	CA	US	
Hafalia, April	Santa Clara	CA	US	
Arvizu, Chandra	Menlo Park	CA	US	
Policky, Jennifer L.	San Jose	CA	US	
Tribouley, Catherine M.	San Francisco	CA	US	
Baughn, Mariah R.	San Leandro	CA	US	
Nguyen, Danniel B.	San Jose	CA	US	
Lal, Preeti	Santa Clara	CA	US	
Tang, Y. Tom	San Jose	CA	US	

Hillman, Jennifer L.	Mountain View	CA	US
Lu, Dyung Aina M.	San Jose	CA	US
Batra, Sajeev	Sunnyvale	CA	US
Au-Young, Janice	Brisbane	CA	US
Reddy, Roopa	Sunnyvale	CA	US
Azimzai, Yalda	Castro Valley	CA	US

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 530/350, 530/388.22, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D-
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☐ 6. Document ID: US 20030207800 A1

L26: Entry 6 of 100

File: PGPB

Nov 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030207800

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030207800 A1

TITLE: Proteins, polynucleotides encoding them and methods of using the same

PUBLICATION-DATE: November 6, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Malyankar, Uriel M.	Branford	CT	US	
Shenoy, Suresh G.	Branford	CT	US	
Spytek, Kimberly A.	New Haven	CT	US	
Zerhusen, Bryan D.	Branford	CT	US	
Patturajan, Meera	Branford	CT	US	
Guo, Xiaojia (Sasha)	Branford	CT	US	
Kekuda, Ramesh	Stamford	CT	US	
Gangolli, Esha A.	Madison	CT	US	
Shimkets, Richard A.	West Haven	CT	US	
Taupier, Raymond J. JR.	East Haven	CT	US	
Li, Li	Branford	CT	US	
Padigaru, Muralidhara	Branford	CT	US	

US-CL-CURRENT: 514/12; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D-
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☐ 7. Document ID: US 20030190715 A1

L26: Entry 7 of 100

File: PGPB

Oct 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030190715

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030190715 A1

TITLE: Novel proteins and nucleic acids encoding same

PUBLICATION-DATE: October 9, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Grosse, William M.	Branford	CT	US	
Alsobrook, John P. II	Madison	CT	US	
Lepley, Denise M.	Branford	CT	US	
Burgess, Catherine E.	Wethersfield	CT	US	
Mishra, Vishnu	Gainesville	FL	US	
Kekuda, Ramesh	Stamford	CT	US	
Li, Li	Branford	CT	US	
Padigaru, Muralidhara	Branford	CT	US	
Shimkets, Richard A.	West Haven	CT	US	
Zerhusen, Bryan D.	Branford	CT	US	
Spytek, Kimberly A.	New Haven	CT	US	
Edinger, Shlomit R.	New Haven	CT	US	
Gerlach, Valerie	Branford	CT	US	
MacDougall, John R.	Hamden	CT	US	
Millet, Isabelle	Milford	CT	US	
Stone, David J.	Guilford	CT	US	
Gunther, Erik	Branford	CT	US	
Ellerman, Karen	Branford	CT	US	

US-CL-CURRENT: 435/183; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNIC	Drawings
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☐ 8. Document ID: US 20030175733 A1

L26: Entry 8 of 100

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030175733

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030175733 A1

TITLE: Polypeptides having diagnostic, preventive, therapeutic, and other uses

PUBLICATION-DATE: September 18, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kirst, Susan J.	Brookline	MA	US	
Holtzman, Douglas A.	Jamaica Plain	MA	US	
Fraser, Christopher C.	Lexington	MA	US	
Sharp, John D.	Arlington	MA	US	
Barnes, Thomas S.	Boston	MA	US	

US-CL-CURRENT: [435/6](#); [435/183](#), [435/320.1](#), [435/325](#), [435/69.1](#), [530/350](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Draw D.
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☐ 9. Document ID: US 20030175293 A1

L26: Entry 9 of 100

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030175293

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030175293 A1

TITLE: Choline binding proteins for anti-pneumococcal vaccines

PUBLICATION-DATE: September 18, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Masure, H. Robert	Germantown	TN	US	
Rosenow, Carsten I.	Redwood City	CA	US	
Tuomanen, Elaine	Germantown	TN	US	
Wizemann, Theresa M.	Germantown	MD	US	

US-CL-CURRENT: [424/190.1](#); [424/244.1](#), [514/12](#), [530/350](#), [530/825](#), [930/200](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Draw D.
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☐ 10. Document ID: US 20030170807 A1

L26: Entry 10 of 100

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170807

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030170807 A1

TITLE: Nucleic acid molecule encoding homer 1b protein

PUBLICATION-DATE: September 11, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Worley, Paul F.	Baltimore	MD	US	
Tu, Jian Cheng	Towson	MD	US	
Xiao, Bo	Ellicott City	MD	US	
Leahy, Daniel	Baltimore	MD	US	
Beneken, Jutta	Baltimore	MD	US	
Ianahan, Anthony A.	Baltimore	MD	US	
Brakeman, Paul R.	Baltimore	MD	US	

US-CL-CURRENT: [435/69.1](#); [435/252.3](#), [435/320.1](#), [435/325](#), [530/350](#), [536/23.5](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 11. Document ID: US 20030165875 A1

L26: Entry 11 of 100

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030165875

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030165875 A1

TITLE: Novel receptor TREM (triggering receptor expressed on myeloid cells) and  
uses thereof

PUBLICATION-DATE: September 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Colonna, Marco	St. Louis	MO	US	
Bouchon, Axel	Wuppertal		DE	

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 12. Document ID: US 20030165873 A1

L26: Entry 12 of 100

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030165873

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030165873 A1

TITLE: Three hybrid assay system

PUBLICATION-DATE: September 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Come, Jon H.	Cambridge	MA	US	
Becker, Frank	Planegg	MA	DE	
Kley, Nikolai	Wellesley		US	

US-CL-CURRENT: 435/6; 435/7.1, 530/350, 536/23.1, 536/5, 552/570

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 13. Document ID: US 20030165500 A1



L26: Entry 13 of 100

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030165500  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030165500 A1

TITLE: Wnt and frizzled receptors as targets for immunotherapy in head and neck  
squamous cell carcinomas

PUBLICATION-DATE: September 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rhee, Chae-Seo	Seoul	CA	KR	
Sen, Malini	San Diego	CA	US	
Wu, Christina	San Diego	CA	US	
Leoni, Lorenzo M.	San Diego	CA	US	
Corr, Maripat	San Diego	CA	US	
Carson, Dennis A.	Del Mar		US	

US-CL-CURRENT: 424/143.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Keywords	Drawings
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☐ 14. Document ID: US 20030157113 A1

L26: Entry 14 of 100

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030157113  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030157113 A1

TITLE: Compositions and methods for treatment of neoplastic disease

PUBLICATION-DATE: August 21, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Terman, David S.	Pebble Beach	CA	US	

US-CL-CURRENT: 424/184.1; 435/346

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Keywords	Drawings
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☐ 15. Document ID: US 20030153016 A1

L26: Entry 15 of 100

File: PGPB

Aug 14, 2003

PGPUB-DOCUMENT-NUMBER: 20030153016  
PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030153016 A1

TITLE: PSCA: prostate stem cell antigen

PUBLICATION-DATE: August 14, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reiter, Robert E.	Los Angeles	CA	US	
Witte, Owen N.	Sherman Oaks	CA	US	
Saffran, Douglas C.	Los Angeles	CA	US	
Jakobovits, Aya	Beverly Hills	CA	US	

US-CL-CURRENT: 435/7.23; 424/155.1, 530/388.8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 16. Document ID: US 20030147806 A1

L26: Entry 16 of 100

File: PGPB

Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030147806

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030147806 A1

TITLE: PSCA: prostate stem cell anitgen and uses thereof

PUBLICATION-DATE: August 7, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reiter, Robert E.	Los Angeles	CA	US	
Witte, Owen N.	Sherman Oaks	CA	US	
Saffran, Douglas C.	Los Angeles	CA	US	

US-CL-CURRENT: 424/1.11; 435/7.23, 530/391.1, 800/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 17. Document ID: US 20030138890 A1

L26: Entry 17 of 100

File: PGPB

Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030138890

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030138890 A1

TITLE: Novel G protein-coupled receptor family members, human thioredoxin family members, human leucine-rich repeat family members, and human ringfinger family member

PUBLICATION-DATE: July 24, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glucksmann, Maria Alexandra	Lexington	MA	US	
Silos-Santiago, Inmaculada	Jamaica Plain	MA	US	
Galvin, Katherine M.	Jamaica Plain	MA	US	
Weich, Nadine	Brookline	MA	US	
Curtis, Rory A. J.	Framingham	MA	US	
Bandaru, Rajasekhar	Watertown	MA	US	
Kapeller-Libermann, Rosana	Chestnut Hill	MA	US	

US-CL-CURRENT: [435/69.1](#); [435/320.1](#), [435/325](#), [530/350](#), [536/23.5](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Drawings
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☐ 18. Document ID: US 20030129685 A1

L26: Entry 18 of 100

File: PGPB

Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030129685

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030129685 A1

TITLE: 12 human secreted proteins

PUBLICATION-DATE: July 10, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ni, Jian	Germantown	MD	US	
Young, Paul E.	Gaithersburg	MD	US	
Kenny, Joseph J.	Damascus	MD	US	
Olsen, Henrik S.	Gaithersburg	MD	US	
Moore, Paul A.	Germantown	MD	US	
Wei, Ying-Fei	Berkeley	CA	US	
Greene, John M.	Gaithersburg	MD	US	
Ruben, Steven M.	Olney	MD	US	

US-CL-CURRENT: [435/69.1](#); [435/183](#), [435/320.1](#), [435/325](#), [435/455](#), [530/388.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Drawings
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☐ 19. Document ID: US 20030124569 A1

L26: Entry 19 of 100

File: PGPB

Jul 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030124569

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030124569 A1

TITLE: Secretary molecules

PUBLICATION-DATE: July 3, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Panzer, Scott R.	Sunnyvale	CA	US	
Spiro, Peter A.	Palo Alto	CA	US	
Banville, Steven C.	Palo Alto	CA	US	
Shah, Purvi	San Jose	CA	US	
Chalup, Michael S.	Sunnyvale	CA	US	
Chang, Simon C.	Mountain View	CA	US	
Chen, Alice	San Jose	CA	US	
D'sa, Steven	East Palo Alto	CA	US	
Amshey, Stefan	San Francisco	CA	US	
Dahl, Christopher R.	Fremont	CA	US	
Dam, Tam C.	San Jose	CA	US	
Daniels, Susan E.	Palo Alto	CA	US	
Dufour, Gerard E.	Castro Valley	CA	US	
Flores, Vincent	Union City	CA	US	
Fong, Willy T.	San Francisco	CA	US	
Greenawalt, Lila B.	San Jose	CA	US	
Hillman, Jennifer L.	Mountain View	CA	US	
Jones, Anissa L.	San Jose	CA	US	
Liu, Tommy F.	Daly City	CA	US	
Roseberry, Ann M.	Redwood City	CA	US	
Rosen, Bruce II.	Menlo Park	CA	US	
Russo, Frank D.	Sunnyvale	CA	US	
Stockdreher, Theresa K.	Sunnyvale	CA	US	
Daffo, Abel	San Jose	CA	US	
Wright, Rachel J.	Mountain View	CA	US	
Yap, Pierre E.	Lafayette	CA	US	
Yu, Jimmy Y.	Fremont	CA	US	
Bradley, Diana L.	Soquel	CA	US	
Bratcher, Shawn R.	Mountain View	CA	US	
Chen, Wensheng	Mountain View	CA	US	
Cohen, Howard J.	Palo Alto	CA	US	
Hodgson, David M.	Ann Arbor	MI	US	
Lincoln, Stephen E.	Redwood City	CA	US	

US-CL-CURRENT: 435/6; 435/91.2, 536/23.1, 536/24.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IMC	Draw D.
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☐ 20. Document ID: US 20030113820 A1

L26: Entry 20 of 100

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113820  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030113820 A1

TITLE: PSCA prostate stem cell antigen and uses thereof

PUBLICATION-DATE: June 19, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reiter, Robert E.	Los Angeles	CA	US	
Witte, Owen N.	Sherman Oaks	CA	US	
Saffran, Douglas C.	Los Angeles	CA	US	
Jakobovits, Aya	Beverly Hills	CA	US	

US-CL-CURRENT: 435/7.23; 424/155.1, 530/387.2, 530/388.26, 530/388.8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
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☐ 21. Document ID: US 20030113818 A1

L26: Entry 21 of 100

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113818  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030113818 A1

TITLE: PSCA: prostate stem cell antigen and uses thereof

PUBLICATION-DATE: June 19, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reiter, Robert E.	Los Angeles	CA	US	
Witte, Owen N.	Sherman Oaks	CA	US	
Saffran, Douglas C.	Los Angeles	CA	US	
Jakobovits, Aya	Beverly Hills	CA	US	

US-CL-CURRENT: 435/7.23; 530/387.2, 530/388.26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
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☐ 22. Document ID: US 20030113813 A1

L26: Entry 22 of 100

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113813  
PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030113813 A1

TITLE: Methods and devices for the integrated discovery of cell culture environments

PUBLICATION-DATE: June 19, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Heidaran, Mohammad A.	Cary	NC	US	
Meyer, Mary K.	Durham	NC	US	
Rowley, Jon A.	Chapel Hill	NC	US	
Hemperly, John J.	Apex	NC	US	

US-CL-CURRENT: 435/7.2; 435/287.2, 435/325

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Draw D
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☐ 23. Document ID: US 20030113713 A1

L26: Entry 23 of 100

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113713

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030113713 A1

TITLE: Methods and apparatus for conducting multiple measurements on a sample

PUBLICATION-DATE: June 19, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glezer, Eli N.	Chevy Chase	MD	US	
Johnson, Kent	Bethesda	MD	US	
Tsionsky, Michael	Gaithersburg	MD	US	
Kenton, John H.	Boyd	MD	US	
DeBad, Jeff D.	Gaithersburg	MD	US	
Umek, Robert M.	Silver Spring	MD	US	
Eason, Paula Denney	Germantown	MD	US	
Biebuyck, Hans	Rockville	MD	US	
Wohlstadter, Jacob N.	Potomac	MD	US	
Wilbur, James	Germantown	MD	US	
Sigal, George	Rockville	MD	US	

US-CL-CURRENT: 435/5; 435/287.2, 435/6, 435/7.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Draw D
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☐ 24. Document ID: US 20030091640 A1

L26: Entry 24 of 100

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030091640

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030091640 A1

TITLE: Enhanced oral and transcompartmental delivery of therapeutic or diagnostic agents

PUBLICATION-DATE: May 15, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ramanathan, Srinivasan	Mountain View	CA	US	
Stein, Stanley	East Brunswick	NJ	US	
Leibowitz, Michael	Manalapan	NJ	US	
Sinko, Patrick J.	Lebanon	NJ	US	
Minko, Tamara	Edison	NJ	US	
Williams, Gregory C.	Warren	NJ	US	
Zhang, Goubao	San Diego	CA	US	
Zhang, Xiaoping	Piscataway	NJ	US	
Pooyan, Shahrair	Monnt Kisco	NY	US	
Park, Seong Hee	Piscataway	NJ	US	
Qiu, Bo	East Brunswick	NJ	US	
Paranjpe, Pankaj	Piscataway	NJ	US	

US-CL-CURRENT: 424/486

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw. Us
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☐ 25. Document ID: US 20030082586 A1

L26: Entry 25 of 100

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030082586

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030082586 A1

TITLE: Antibodies having diagnostic, preventive, therapeutic, and other uses

PUBLICATION-DATE: May 1, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kirst, Susan J.	Brookline	MA	US	
Holtzman, Douglas A.	Jamaica Plain	MA	US	
Fraser, Christopher C.	Lexington	MA	US	
Sharp, John D.	Arlington	MA	US	

Barnes, Thomas S.

Boston

MA

US

US-CL-CURRENT: 435/6; 435/183, 435/320.1, 435/325, 435/69.1, 435/7.1, 530/388.26,  
536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMBC	Draw D
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☐ 26. Document ID: US 20030082238 A1

L26: Entry 26 of 100

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030082238

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030082238 A1

TITLE: Matrices for drug delivery and methods for making and using the same

PUBLICATION-DATE: May 1, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Babich, John W.	North Scituate	MA	US	
Zubietta, Jon	Syracuse	NY	US	
Bonavia, Grant	Kensington	MD	US	

US-CL-CURRENT: 424/491; 424/130.1, 424/94.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMBC	Draw D
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☐ 27. Document ID: US 20030078406 A1

L26: Entry 27 of 100

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030078406

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030078406 A1

TITLE: Methods and compositions for DRM, a secreted protein with cell growth inhibiting activity

PUBLICATION-DATE: April 24, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Blair, Donald G.	Frederick	MD	US	
Clausen, Peter A.	Frederick	MD	US	
Topol, Lilia Z.	Frederick	MD	US	
Marx, Maria	L'Hay Les Roses		FR	
Calothy, Georges	Orsay		FR	



US-CL-CURRENT: 536/23.5; 435/320.1, 435/325, 435/69.1, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D.
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☐ 28. Document ID: US 20030055231 A1

L26: Entry 28 of 100

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030055231

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030055231 A1

TITLE: 12 human secreted proteins

PUBLICATION-DATE: March 20, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ni, Jian	Germantown	MD	US	
Young, Paul E.	Gaithersburg	MD	US	
Kenny, Joseph J.	Damascus	MD	US	
Olsen, Henrik S.	Gaithersburg	MD	US	
Moore, Paul A.	Germantown	MD	US	
Wei, Ying-Fei	Berkeley	CA	US	
Greene, John M.	Gaithersburg	MD	US	
Ruben, Steven M.	Olney	MD	US	
Liu, Ding	Gaithersburg	MD	US	
Crocker, Paul R.	Dundee		GB	

US-CL-CURRENT: 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D.
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☐ 29. Document ID: US 20030044783 A1

L26: Entry 29 of 100

File: PGPB

Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030044783

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030044783 A1

TITLE: Human genes and gene expression products

PUBLICATION-DATE: March 6, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Williams, Lewis T.	Mill Valley	CA	US	
Escobedo, Jaime	Alamo	CA	US	

Innis, Michael A.	San Francisco	CA	US
Garcia, Pablo Dominguez	Kensington	CA	US
Sudduth-Klinger, Julie	Alameda	CA	US
Reinhard, Christoph	Oakland	CA	US
Randazzo, Filippo	San Francisco	CA	US
Kennedy, Giulia C.	Arlington	VA	US
Pot, David	Oakland	CA	US
Kassam, Altaf	Moraga	CA	US
Lamson, George	Palo Alto	CA	US
Drmanac, Radjoe	Hollister	CA	US
Dickson, Mark	Mountain View	CA	US
Labat, Ivan	Sunnyvale	CA	US
Jones, Lee William	Sunnyvale	CA	US
Stache-Crain, Birgit			US

US-CL-CURRENT: 435/6; 435/183, 435/320.1, 435/325, 435/69.1, 530/350, 530/388.1,  
536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMIC	Draw D
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☐ 30. Document ID: US 20030027998 A1

L26: Entry 30 of 100

File: PGPB

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030027998

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030027998 A1

TITLE: Novel genes encoding proteins having prognostic, diagnostic, preventive, therapeutic, and other uses

PUBLICATION-DATE: February 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Holtzman, Douglas A.	Jamaica Plain	MA	US	
Barnes, Thomas M.	Brookline	MA	US	

US-CL-CURRENT: 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMIC	Draw D
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☐ 31. Document ID: US 20030027161 A1

L26: Entry 31 of 100

File: PGPB

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030027161

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030027161 A1

TITLE: Human cDNAs and proteins and uses thereof

PUBLICATION-DATE: February 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bejanin, Stephane	Paris		FR	
Tanaka, Hiroaki	Antony		FR	

US-CL-CURRENT: 435/6; 435/183, 435/320.1, 435/325, 435/69.1, 530/350, 536/23.2, 800/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RIMC	Draw D
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☐ 32. Document ID: US 20030022279 A1

L26: Entry 32 of 100

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030022279

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030022279 A1

TITLE: Novel genes encoding proteins having prognostic, diagnostic, preventive, therapeutic, and other uses

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fraser, Christopher C.	Lexington	MA	US	
Barnes, Thomas M.	Brookline	MA	US	
Sharp, John D.	Arlington	MA	US	
Kirst, Susan J.	Brookline	MA	US	
Myers, Paul S.	Cambridge	MA	US	
Leiby, Kevin R.	Natick	MA	US	
Holtzman, Douglas A.	Jamaica Plain	MA	US	
McCarthy, Sean A.	San Diego	CA	US	
Wrighton, Nicholas	Winchester	MA	US	
MacKay, Charles R.	Vaucluse	MA	AU	
Goodearl, Andrew D.J.	Natick		US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 514/44, 530/350, 536/23.2, 800/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RIMC	Draw D
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☐ 33. Document ID: US 20030012781 A1

L26: Entry 33 of 100

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030012781  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030012781 A1

TITLE: Non-agonistic antibodies to human gp39, compositions containing, and therapeutic use thereof

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Darrell, Anderson	Escondido	CA	US	
Pan, Li-Zhen	San Diego	CA	US	
Hanna, Nabil	Rancho Santa Fe	CA	US	
Rastetter, William H.	Rancho Santa Fe	CA	US	
Kloetzer, William S.	Carlsbad	CA	US	

US-CL-CURRENT: 424/131.1; 424/93.21

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 34. Document ID: US 20020177551 A1

L26: Entry 34 of 100

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177551  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020177551 A1

TITLE: Compositions and methods for treatment of neoplastic disease

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Terman, David S.	Pebble Beach	CA	US	

US-CL-CURRENT: 514/12; 435/325, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 35. Document ID: US 20020156239 A1

L26: Entry 35 of 100

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020156239  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020156239 A1

TITLE: EPH receptor ligands, and uses related thereto

PUBLICATION-DATE: October 24, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Flanagan, John G.	Newton	MA	US	
Cheng, Hwai-Jong	Boston	MA	US	

US-CL-CURRENT: 530/350; 435/320.1, 435/325, 435/69.1, 530/388.22, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 36. Document ID: US 20020141941 A1

L26: Entry 36 of 100

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020141941

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020141941 A1

TITLE: PSCA: prostate stem cell antigen and uses thereof

PUBLICATION-DATE: October 3, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reiter, Robert E.	Los Angeles	CA	US	
Witte, Owen N.	Sherman Oaks	CA	US	
Saffran, Douglas C.	Los Angeles	CA	US	
Jakobovits, Aya	Beverly Hills	CA	US	

US-CL-CURRENT: 424/1.49; 424/155.1, 424/178.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 37. Document ID: US 20020136689 A1

L26: Entry 37 of 100

File: PGPB

Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020136689

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020136689 A1

TITLE: PSCA: prostate stem cell antigen and uses thereof

PUBLICATION-DATE: September 26, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reiter, Robert E.	Los Angeles	CA	US	
Witte, Owen N.	Sherman Oaks	CA	US	

Saffran, Douglas C.	Los Angeles	CA	US
Jakobovits, Aya	Beverly Hills	CA	US

US-CL-CURRENT: 424/1.49; 424/155.1, 424/178.1, 530/388.8, 530/391.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	WMC	Draw D.
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☐ 38. Document ID: US 20020128234 A1

L26: Entry 38 of 100

File: PGPB

Sep 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020128234

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020128234 A1

TITLE: Multifunctional polymeric surface coatings in analytic and sensor devices

PUBLICATION-DATE: September 12, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hubbell, Jeffrey A.	Zumikon	CA	CH	
Textor, Marcus	Schaffhausen		CH	
Elbert, Donald L.	Zurich		CH	
Finken, Stephanie	Zurich		CH	
Hofer, Rolf	Biel		CH	
Spencer, Nicholas D.	Zollikon		CH	
Ruiz-Taylor, Laurence	Belmont		US	

US-CL-CURRENT: 514/100

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	WMC	Draw D.
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☐ 39. Document ID: US 20020127198 A1

L26: Entry 39 of 100

File: PGPB

Sep 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020127198

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020127198 A1

TITLE: Compositions and methods for enhancing drug delivery across and into epithelial tissues

PUBLICATION-DATE: September 12, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rothbard, Jonathan B.	Cupertino	CA	US	
Wender, Paul A.	Menlo Park	CA	US	

McGrane, P. Leo	Mountain View	CA	US
Sista, Lalitha V.S.	Sunnyvale	CA	US
Kirschberg, Thorsten A.	Mountain View	CA	US

US-CL-CURRENT: 424/78.37; 514/12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 40. Document ID: US 20020120947 A1

L26: Entry 40 of 100

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020120947

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020120947 A1

TITLE: Protein-protein interactions in neurodegenerative disorders

PUBLICATION-DATE: August 29, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Roch, Jean-Marc	Salt Lake City	UT	US	
Bartel, Paul L.	Salt Lake City	UT	US	

US-CL-CURRENT: 800/3; 435/7.92

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 41. Document ID: US 20020119157 A1

L26: Entry 41 of 100

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020119157

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020119157 A1

TITLE: PSCA: prostate stem cell antigen and uses thereof

PUBLICATION-DATE: August 29, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reiter, Robert E.	Los Angeles	CA	US	
Witte, Owen N.	Sherman Oaks	CA	US	
Saffran, Douglas C.	Los Angeles	CA	US	
Jakobovits, Aya	Beverly Hills	CA	US	

US-CL-CURRENT: 424/155.1; 530/388.8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D:
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☐ 42. Document ID: US 20020107376 A1

L26: Entry 42 of 100

File: PGPB

Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020107376

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020107376 A1

TITLE: 26199, 33530, 33949, 47148, 50226, and 58764, novel human transferase family members and uses therefor

PUBLICATION-DATE: August 8, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Meyers, Rachel	Newton	MA	US	
MacBeth, Kyle	Boston	MA	US	

US-CL-CURRENT: 536/23.2; 435/193, 435/320.1, 435/325, 435/6, 435/69.1, 435/7.23

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D:
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☐ 43. Document ID: US 20020102666 A1

L26: Entry 43 of 100

File: PGPB

Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020102666

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020102666 A1

TITLE: PSCA: prostate stem cell antigen and uses thereof

PUBLICATION-DATE: August 1, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reiter, Robert E.	Los Angeles	CA	US	
Witte, Owen N.	Sherman Oaks	CA	US	
Saffran, Douglas C.	Los Angeles	CA	US	
Jakobovits, Aya	Beverly Hills	CA	US	

US-CL-CURRENT: 435/110; 424/1.49, 424/178.1, 530/389.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D:
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☐ 44. Document ID: US 20020102567 A1



L26: Entry 44 of 100

File: PGPB

Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020102567  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020102567 A1

TITLE: Method for comparing nucleic acid sequences

PUBLICATION-DATE: August 1, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fodor, Stephen P.A.	Palo Alto	CA	US	
Solas, Dennis W.	San Francisco	CA	US	
Dower, William J.	Menlo Park	CA	US	

US-CL-CURRENT: 435/6; 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw. D.
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☐ 45. Document ID: US 20020076752 A1

L26: Entry 45 of 100

File: PGPB

Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020076752  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020076752 A1

TITLE: 33395, a novel human leucine-rich repeat family member and uses thereof

PUBLICATION-DATE: June 20, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glucksmann, Maria Alexandra	Lexington	MA	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw. D.
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☐ 46. Document ID: US 20020072074 A1

L26: Entry 46 of 100

File: PGPB

Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020072074  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020072074 A1

TITLE: Self-assembling peptide surfaces for cell patterning and interactions

PUBLICATION-DATE: June 13, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zhang, Shuguang	Lexington	MA	US	
Rich, Alexander	Cambridge	MA	US	
Yan, Lin	Somerville	MA	US	
Whitesides, George	Newton	MA	US	

US-CL-CURRENT: 435/7.2; 435/287.2, 436/518

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWOC	Draw D-
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☐ 47. Document ID: US 20020069424 A1

L26: Entry 47 of 100

File: PGPB

Jun 6, 2002

PGPUB-DOCUMENT-NUMBER: 20020069424

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020069424 A1

TITLE: Protein-protein interactions in neurodegenerative disorders

PUBLICATION-DATE: June 6, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Roch, Jean-Marc	Salt Lake City	UT	US	
Bartel, Paul L.	Salt Lake City	UT	US	

US-CL-CURRENT: 800/18; 435/7.9, 800/3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWOC	Draw D-
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☐ 48. Document ID: US 20020068321 A1

L26: Entry 48 of 100

File: PGPB

Jun 6, 2002

PGPUB-DOCUMENT-NUMBER: 20020068321

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020068321 A1

TITLE: Splice choice antagonists as therapeutic agents

PUBLICATION-DATE: June 6, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Newman, Stuart A.	Pleasantville	NY	US	
Bronstein, Natalie B.	Patterson	NY	US	

US-CL-CURRENT: 435/69.1; 435/458, 435/461

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw D
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☐ 49. Document ID: US 20020059653 A1

L26: Entry 49 of 100

File: PGPB

May 16, 2002

PGPUB-DOCUMENT-NUMBER: 20020059653

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020059653 A1

TITLE: Protein-protein interactions in neurodegenerative disorders

PUBLICATION-DATE: May 16, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Roch, Jean-Marc	Salt Lake City	UT	US	
Bartel, Paul L.	Salt Lake City	UT	US	

US-CL-CURRENT: 800/12; 424/146.1, 514/12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw D
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☐ 50. Document ID: US 20020054876 A1

L26: Entry 50 of 100

File: PGPB

May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020054876

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020054876 A1

TITLE: Protein-protein interactions in neurodegenerative disorders

PUBLICATION-DATE: May 9, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Roch, Jean-Marc	Salt Lake City	UT	US	
Bartel, Paul L.	Salt Lake City	UT	US	

US-CL-CURRENT: 424/146.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw D
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NEWS 10 Jul 30 BEILSTEIN on STN workshop to be held August 24 in conjunction  
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NEWS 11 AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display  
fields  
NEWS 12 AUG 02 Cplus and CA patent records enhanced with European and Japan  
Patent Office Classifications  
NEWS 13 AUG 02 STN User Update to be held August 22 in conjunction with the  
228th ACS National Meeting  
NEWS 14 AUG 02 The Analysis Edition of STN Express with Discover!  
(Version 7.01 for Windows) now available  
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=> e Zhang S/au

E1	14	ZHANG RUZHOU/AU
E2	1	ZHANG RVELL C/AU
E3	5655 -->	ZHANG S/AU
E4	9	ZHANG S A/AU
E5	1	ZHANG S ALLAN/AU
E6	223	ZHANG S B/AU
E7	231	ZHANG S C/AU
E8	1	ZHANG S C MITCHELL AND A Q/AU
E9	51	ZHANG S D/AU
E10	2	ZHANG S E/AU
E11	145	ZHANG S F/AU
E12	45	ZHANG S G/AU

=> e Zhang Shuguang/au

E1	2	ZHANG SHUGIN/AU
E2	49	ZHANG SHUGONG/AU
E3	181 -->	ZHANG SHUGUANG/AU
E4	6	ZHANG SHUGUI/AU
E5	3	ZHANG SHUGUN/AU
E6	3	ZHANG SHUGUO/AU
E7	10	ZHANG SHUHAI/AU
E8	3	ZHANG SHUHE/AU
E9	2	ZHANG SHUHENG/AU
E10	28	ZHANG SHUHONG/AU
E11	84	ZHANG SHUHUA/AU
E12	1	ZHANG SHUHUA OU ZHENGROG/AU

=> s e3

L1 181 "ZHANG SHUGUANG"/AU

=> s l1 and (protein or polypeptide or peptide) and (solid (w) substrate or surface or array)

L2 13 L1 AND (PROTEIN OR POLYPEPTIDE OR PEPTIDE) AND (SOLID (W) SUBSTRATE OR SURFACE OR ARRAY)

=> dup rem

ENTER L# LIST OR (END):L2

PROCESSING COMPLETED FOR L2

L3 11 DUP REM L2 (2 DUPLICATES REMOVED)

=> t ti l3 1-11

L3 ANSWER 1 OF 11 MEDLINE on STN

TI Hydrogels: Wet or let die.

L3 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

TI Cellular reprogramming in **peptide** hydrogel and uses thereof

L3 ANSWER 3 OF 11 MEDLINE on STN

DUPLICATE 1

TI Entrapment of migrating hippocampal neural cells in three-dimensional **peptide** nanofiber scaffold.

L3 ANSWER 4 OF 11 MEDLINE on STN

TI Design **peptide** scaffolds for regenerative medicine.

L3 ANSWER 5 OF 11 MEDLINE on STN

TI Molecular self-assembly of surfactant-like peptides to form nanotubes and nanovesicles.

L3 ANSWER 6 OF 11 MEDLINE on STN

DUPLICATE 2

TI Emerging biological materials through molecular self-assembly.

L3 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

TI Att-mechanism in the design of self-assembling structures

L3 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

TI A new circular helicoid-type sequential oligopeptide carrier for assembling multiple antigenic peptides

L3 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

TI Design of self-assembling peptides as catalyst mimetics using synthetic combinatorial libraries

L3 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

TI Self-assembling **peptide** surfaces for cell patterning and interactions

L3 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

TI Design and exploitation of self-assembling ionic complementary **peptide** systems: a model for **peptide** biomaterial engineering

=> d ibib abs ll3 1-11

'LL3' IS NOT A VALID FORMAT

In a multifile environment, a format can only be used if it is valid in at least one of the files. Refer to file specific help messages or the STNGUIDE file for information on formats available in individual files.

REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):end

=> d ibib abs L13 1-11

L13 NOT FOUND

The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> d ibib abs L3 1-11

L3 ANSWER 1 OF 11 MEDLINE on STN  
ACCESSION NUMBER: 2004007832 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 14704774  
TITLE: Hydrogels: Wet or let die.  
COMMENT: Comment on: Nat Mater. 2004 Jan;3(1):58-64. PubMed ID: 14661016  
AUTHOR: Zhang Shuguang  
SOURCE: Nature materials, (2004 Jan) 3 (1) 7-8.  
Journal code: 101155473. ISSN: 1476-1122.  
PUB. COUNTRY: England: United Kingdom  
DOCUMENT TYPE: Commentary  
News Announcement  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200403  
ENTRY DATE: Entered STN: 20040106  
Last Updated on STN: 20040326  
Entered Medline: 20040325

L3 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2004:60641 CAPLUS  
DOCUMENT NUMBER: 140:107788  
TITLE: Cellular reprogramming in peptide hydrogel and uses thereof  
INVENTOR(S): Semino, Carlos; Shen, Collette; Sherley, James; Zhang, Shuguang  
PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA  
SOURCE: PCT Int. Appl., 114 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004007683	A2	20040122	WO 2003-US21981	20030715
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2002-193942 A 20020715

AB The present invention provides compns. featuring cells, e.g., progenitor cells, stem cells, and their progeny encapsulated within self-assembling three dimensional peptide hydrogel structures (scaffolds). The scaffolds provide a nanoscale environment. Thus the invention provides a



nanoscale environment scaffold encapsulating cells. According to certain embodiments of the invention the progenitor cells and/or their progeny are able to differentiate or transdifferentiate within the structures. According to certain embodiments of the invention the cells are or differentiate into liver lineage cells, neural lineage cells, or pancreatic lineage cells. The **peptide** hydrogel environment renders the cells permissive for instruction by differentiation-enhancing agents such as growth factors or extracellular matrix components. The invention provides an in vitro culture system for growing stem and progenitor cells, for inducing their differentiation and transdifferentiation, and for studying their properties; an in vitro culture system for growing hepatocyte-like cells and/or mature hepatocytes, which may be used, for example, to propagate hepatotropic viruses; a system for generating insulin secreting cells; a system for controlling and manipulating cell differentiation and transdifferentiation in vitro, from which cells can be extracted and then either maintained in vitro or administered to a subject; a system for controlling and manipulating cell differentiation and transdifferentiation in vitro, and assay systems for testing compds. The invention provides methods of treating disease by implanting **peptide** hydrogel structures containing cells or cells extracted following culture in **peptide** hydrogels into the body.

L3 ANSWER 3 OF 11 MEDLINE on STN DUPLICATE 1  
 ACCESSION NUMBER: 2004269173 IN-PROCESS  
 DOCUMENT NUMBER: PubMed ID: 15165480  
 TITLE: Entrapment of migrating hippocampal neural cells in three-dimensional **peptide** nanofiber scaffold.  
 AUTHOR: Semino Carlos E; Kasahara Jiro; Hayashi Yasunori; Zhang Shuguang  
 CORPORATE SOURCE: Center for Biomedical Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA.  
 SOURCE: Tissue engineering, (2004 Mar-Apr) 10 (3-4) 643-55. Journal code: 9505538. ISSN: 1076-3279.  
 PUB. COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: IN-PROCESS; NONINDEXED; Priority Journals  
 ENTRY DATE: Entered STN: 20040529  
 Last Updated on STN: 20040603

AB Isolation and expansion of self-renewing neural cells ex vivo are required for neural tissue repair in regenerative medicine. Neurogenesis occurs in restricted areas of postnatal mammalian brain including dentate gyrus and subventricular zone. We developed a simple method to entrap migrating neural cells (potential neuroprogenitors) from postnatal hippocampal organotypic cultures in three-dimensional (3-D) **peptide** nanofiber scaffolds. A few hours after placing the hippocampal slices in culture, cell proliferation activity at the "interface zone" between the tissue slice and the membrane culture **surface** was observed. Pulse-chase experiments using 5-bromodeoxyuridine (BrdU), which measures mitotic activity, showed that a number of cells incorporated BrdU at the interface zone. The number of BrdU(+) cells increased exponentially during the first 3 days of exposure to the label. The BrdU(+) cells also stained positive for glial fibrillary acidic **protein** (2.2 +/- 0.5%), a marker for astroglia; and for betaIII tubulin (7.3 +/- 2.8%) and nestin (2.7 +/- 0.9%), markers for neural progenitors. When hippocampal slices were cultured on a **peptide** nanofiber scaffold layer (500 microm thick), a more extended interface zone between each tissue slice and the scaffold was formed. Moreover, the migrating BrdU(+) cell population entrapped in the 3-D **peptide** scaffold was readily isolated by mechanically disrupting the scaffold and then used for conventional 2-D culture systems for further studies. This simple method

may be useful not only in developing technology for neural progenitor cell isolation and enrichment in vitro, but also for expanding cells for cell-based therapies of regenerative medicine.

L3 ANSWER 4 OF 11 MEDLINE on STN  
ACCESSION NUMBER: 2003369162 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 12903718  
TITLE: Design **peptide** scaffolds for regenerative medicine.  
AUTHOR: Zhang Shuguang; Semino Carlos E  
CORPORATE SOURCE: Center for Biomedical Engineering, Massachusetts Institute of Technology, Cambridge, MA 02139-4307, USA.  
SOURCE: Advances in experimental medicine and biology, (2003) 534 147-63.  
Journal code: 0121103. ISSN: 0065-2598.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200402  
ENTRY DATE: Entered STN: 20030808  
Last Updated on STN: 20040217  
Entered Medline: 20040216

L3 ANSWER 5 OF 11 MEDLINE on STN  
ACCESSION NUMBER: 2002237337 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 11929973  
TITLE: Molecular self-assembly of surfactant-like peptides to form nanotubes and nanovesicles.  
AUTHOR: Vauthey Sylvain; Santoso Steve; Gong Haiyan; Watson Nicki;  
Zhang Shuguang  
CORPORATE SOURCE: Center for Biomedical Engineering, 56-341, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, MA 02139-4307, USA.  
SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (2002 Apr 16) 99 (8) 5355-60.  
Journal code: 7505876. ISSN: 0027-8424.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200206  
ENTRY DATE: Entered STN: 20020429  
Last Updated on STN: 20030105  
Entered Medline: 20020614

AB Several surfactant-like peptides undergo self-assembly to form nanotubes and nanovesicles having an average diameter of 30-50 nm with a helical twist. The **peptide** monomer contains 7-8 residues and has a hydrophilic head composed of aspartic acid and a tail of hydrophobic amino acids such as alanine, valine, or leucine. The length of each **peptide** is approximately equal to 2 nm, similar to that of biological phospholipids. Dynamic light-scattering studies showed structures with very discrete sizes. The distribution becomes broader over time, indicating a very dynamic process of assembly and disassembly. Visualization with transmission electron microscopy of quick-freeze/deep-etch sample preparation revealed a network of open-ended nanotubes and some vesicles, with the latter being able to "fuse" and "bud" out of the former. The structures showed some tail sequence preference. Many three-way junctions that may act as links between the nanotubes have been observed also. Studies of **peptide** surfactant molecules have significant implications in the design of nonlipid biological surfactants and the understanding of the complexity

and dynamics of the self-assembly processes.

L3 ANSWER 6 OF 11 MEDLINE on STN DUPLICATE 2  
ACCESSION NUMBER: 2003474307 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 14550019  
TITLE: Emerging biological materials through molecular self-assembly.  
AUTHOR: Zhang Shuguang  
CORPORATE SOURCE: Center for Biomedical Engineering 56-341, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, MA 02139-4307, USA.. shuguang@mit.edu  
SOURCE: Biotechnology advances, (2002 Dec) 20 (5-6) 321-39. Journal code: 8403708. ISSN: 0734-9750.  
PUB. COUNTRY: England: United Kingdom  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: PUBMED-NOT-MEDLINE  
ENTRY MONTH: 200401  
ENTRY DATE: Entered STN: 20031011  
Last Updated on STN: 20040124  
Entered Medline: 20040123

AB Understanding of new materials at the molecular level has become increasingly critical for a new generation of nanomaterials for nanotechnology, namely, the design, synthesis and fabrication of nanodevices at the molecular scale. New technology through molecular self-assembly as a fabrication tool will become tremendously important in the coming decades. Basic engineering principles for microfabrication can be learned by understanding the molecular self-assembly phenomena. Self-assembly phenomenon is ubiquitous in nature. The key elements in molecular self-assembly are chemical complementarity and structural compatibility through noncovalent interactions. We have defined the path to understand these principles. Numerous self-assembling systems have been developed ranging from models to the study of **protein** folding and **protein** conformational diseases, to molecular electronics, **surface** engineering, and nanotechnology. Several distinctive types of self-assembling **peptide** systems have been developed. Type I, "molecular Lego" forms a hydrogel scaffold for tissue engineering; Type II, "molecular switch" as a molecular actuator; Type III, "molecular hook" and "molecular velcro" for **surface** engineering; Type IV, **peptide** nanotubes and nanovesicles, or "molecular capsule" for **protein** and gene deliveries and Type V, "molecular cavity" for biomineralization. These self-assembling **peptide** systems are simple, versatile and easy to produce. These self-assembly systems represent a significant advance in the molecular engineering for diverse technological innovations.

L3 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2001:785205 CAPLUS  
DOCUMENT NUMBER: 137:20594  
TITLE: ATt-mechanism in the design of self-assembling structures  
AUTHOR(S): Urry, Dan W.; Hayes, Larry; Luan, Chixiang; Gowda, D. Channe; McPherson, David; Xu, Jie; Parker, Timothy  
CORPORATE SOURCE: OADI Technology Center, Bioelastics Research, Ltd., Birmingham, AL, 35211-6918, USA  
SOURCE: Self-Assembling Peptide Systems in Biology, Medicine and Engineering, [Workshop], Crete, Greece, July 1-6, 1999 (2001), Meeting Date 1999, 323-342. Editor(s): Aggeli, Amalia; Boden, Neville; Zhang, Shuguang  
. Kluwer Academic Publishers: Dordrecht, Neth.  
CODEN: 69BYXZ  
DOCUMENT TYPE: Conference

LANGUAGE: English  
OTHER SOURCE(S): CASREACT 137:20594

AB **Protein**-based polymers can be designed in which self-assembly occurs as the temperature is raised above the onset temperature,  $T_t$ , of an inverse

temperature transition for hydrophobic folding and assembly. Instead of changing the temperature, however, by many means the value of  $T_t$  can be lowered from above to below an operating temperature to drive hydrophobic folding and assembly. This is the  $\Delta T_t$ -mechanism. Modulation of charges on the polymer provides the most dramatic means of controlling  $T_t$  and therefore becomes the most effective means for controlling self-assembly. The formation of charge raises the value of  $T_t$  and causes disassembly, whereas neutralization of charge by lowering degree of ionization or by increasing ion-pairing drives self-assembly. For example, a polymer with one Asp(COO-) or Glu(COO-) per 30 residues can be in solution with its  $T_t$  above 100°C. Titration with a cationic drug lowers  $T_t$  to below 25°C and results in self-assembly into a drug delivery vehicle capable of a constant release profile for a constant **surface** area, and the vehicle simply disperses as the drug is released. Similarly an anionic drug can induce self-assembly of a cationic, e.g., Lys(NH3+)-containing, **protein**-based polymer. Two solns. of **protein**-based polymers, one polymer with neg. charges, e.g., COO-, and the other with pos. charges, e.g., NH3+ and both with hydrophobic residues sufficient to shift the pKa values of their resp. functional groups, can exhibit their individual inverse temperature transitions at temps. much higher than body temperature, even greater than 100°C. On combining the two solns., the polymers self-assemble with a  $T_t$  below room temperature. Each polymer by ion pairing with the other dramatically lowers the temperature of the inverse temperature

transition for polymer self-assembly. The effectiveness of this self-assembly of two oppositely charged **protein**-based polymers increases as the individual hydrophobic-induced pKa shifts are larger and as steric matching occurs in the ion-pairing between the pair of polymers. Furthermore, the same **protein**-based polymer can contain both pos. and neg. charges with hydrophobically shifted pKa values to become locked in self-assembled structures. In summary, ion-pairing within properly designed **protein**-based polymers results in self-assembling materials and structures by means of the  $\Delta T_t$ -mechanism.

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:785201 CAPLUS

DOCUMENT NUMBER: 136:307965

TITLE: A new circular helicoid-type sequential oligopeptide carrier for assembling multiple antigenic peptides

AUTHOR(S): Sakarellos-Daitsiotis, Maria; Tsikaris, Vassilios; Sakarellos, Constantinos

CORPORATE SOURCE: Department of Chemistry, University of Ioannina, Ioannina, 54110, Greece

SOURCE: Self-Assembling Peptide Systems in Biology, Medicine and Engineering, [Workshop], Crete, Greece, July 1-6, 1999 (2001), Meeting Date 1999, 257-271. Editor(s): Aggeli, Amalia; Boden, Neville; Zhang, Shuguang  
. Kluwer Academic Publishers: Dordrecht, Neth.  
CODEN: 69BYXZ

DOCUMENT TYPE: Conference; General Review

LANGUAGE: English

AB A review. A novel class of oligopeptide carriers termed Sequential Oligopeptide Carriers (SOCs) is presented. SOCs are formed either by the Lys-Aib-Gly or the Aib-Lys-Aib-Gly sequential motif. By varying the number

of the repeating units, carriers of the general formula either SOCn-I, (Lys-Aib-Gly)n, or SOCn-II, (Aib-Lys-Aib-Gly)n, where n=2-7, are prepared. The carriers adopt a predetd. secondary structure of 310-helix, which is given by the presence of Aib, an unnatural amino acid with a known propensity to induce ordered helicoid backbone. This helicoidal structure contributes to the reduction of steric hindrance and conformational restrictions of the carrier, and thus allows antigenic peptides to retain their original structure as confirmed by 1HNMR and mol. modeling studies. Four antigenic sequences were selected to assess the utility of SOCn-conjugates, either as antigens in solid-phase immunoassays, or as immunogens in eliciting specific anti-peptide antibodies and producing an immune spreading: (i) the [Ala76] decapeptide derivative of the main immunogenic region (MIR, Trp67-Asn-Pro-Ala-Asp-Tyr-Gly-Gly-Lys76) of the Torpedo nicotinic acetylcholine receptor (AChR), (ii) the gp63-SRYD octapeptide fragment (Ile250-Ala-Ser-Arg-Tyr-Asp-Gln-Leu257) of the gp63, the major surface glycoprotein of Leishmania, (iii) the B-cell epitopes of the La/SSB antigen, TLHKAFKGSIFVVFDSIESA (145-164), ANNGNLQLRNKEVTWELVLEG (289-308), VTWEVLEGEVEKEALKKI (301-318) and GSGKGKVFQGGKTKF (349-364), major targets of anti-La/SSB antibodies in primary Sjogren's syndrome (pSS) and systemic lupus erythematosus (SLE), and (iv) the PPGMRPP heptapeptide, found in several copies in the Sm and U1RNP antigens, main targets of anti-Sm/U1RNP antibodies in SLE. The spatial arrangement and the regular secondary structure of the multi-epitopic SOCn-conjugates result in such an orientation and accessibility of the antigens that favor their recognition by antibodies in immunoassays and by the cells of the immune process.

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:785186 CAPLUS

DOCUMENT NUMBER: 136:98322

TITLE: Design of self-assembling peptides as catalyst mimetics using synthetic combinatorial libraries

AUTHOR(S): Blondelle, S. E.; Crooks, E.; Reixach, N.; Perez-Paya, E.

CORPORATE SOURCE: 3550 General Atomics Ct, Torrey Pines Institute for Molecular Studies, San Diego, CA, 92121, USA

SOURCE: Self-Assembling Peptide Systems in Biology, Medicine and Engineering, [Workshop], Crete, Greece, July 1-6, 1999 (2001), Meeting Date 1999, 35-45. Editor(s):

Aggeli, Amalia; Boden, Neville; Zhang, Shuguang

. Kluwer Academic Publishers: Dordrecht, Neth.

CODEN: 69BYXZ

DOCUMENT TYPE: Conference

LANGUAGE: English

AB The design of artificial catalysts or enzymes represents an area of substantial emerging interest. The authors selected the decarboxylation of oxaloacetate as a catalytic model system based on the report by Benner and coworkers of a peptide that self-assembles into a four- $\alpha$  helix bundle and exhibits modest catalytic activity for this reaction. In the present studies, using self-aggregating peptides, the authors have demonstrated that the nature of the residues located on the hydrophilic face of an  $\alpha$ -helix may also have a significant effect on the packing properties of  $\alpha$ -helical bundles. Indeed, multiple substitutions on the hydrophilic face of an amphipathic peptide, i.e., face exposed to the solvent, was found to result in a clear change in its folding ability, as well as stability. Thus, a productive surface optimization on a simple peptide framework performed by combinatorial chemical directed by structure selection procedures has resulted in a first series of self-aggregating peptides having enhanced folding ability and stability relative to the original

framework. A second optimization by combinatorial approaches allowed the incorporation of functional groups into the core of the self-aggregating **peptide** framework. Thus, a second series of peptides were designed exhibiting catalytic activities for the decarboxylation of oxaloacetate. These results further support the utility of self-assembling peptides as a **protein** framework when combined with combinatorial chemical approaches for the design of artificial functional proteins, such as catalytic mimetics.

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:27864 CAPLUS

DOCUMENT NUMBER: 130:78440

TITLE: Self-assembling **peptide** surfaces for cell patterning and interactions

INVENTOR(S): Zhang, Shuguang; Rich, Alexander; Yan, Lin; Whitesides, George

PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA; President and Fellows of Harvard College

SOURCE: PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9858967	A1	19981230	WO 1998-US13110	19980624
W: CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 6368877	B1	20020409	US 1997-882415	19970625
US 2002072074	A1	20020613	US 2002-71500	20020208
US 2004023414	A1	20040205	US 2002-317838	20021211
PRIORITY APPLN. INFO.:			US 1997-882415	A 19970625
			US 2002-71500	A1 20020208

OTHER SOURCE(S): MARPAT 130:78440

AB This invention describes self-assembled monolayers (SAMs) manufactured by imprinting reactive peptides onto solid supports. The invention further relates to methods of preparing and using these improved SAMs. A polydimethylsiloxane stamp was prepared, inked with (1-mercaptopundec-11-yl)hexa(ethylene glycol) in ethanol, and placed on a gold-coated glass chip. After 1 min, the stamp was peeled off the chip. The chip was immersed in a solution containing (RADC)3AAAC **peptide**. Cells of various types attached very well when plated on the **peptide**-coated chip.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:287417 CAPLUS

DOCUMENT NUMBER: 126:340696

TITLE: Design and exploitation of self-assembling ionic complementary **peptide** systems: a model for **peptide** biomaterial engineering

AUTHOR(S): Zhang, Shuguang

CORPORATE SOURCE: Department Biology 68-233, Center Biomedical Engineering, Massachusetts Institute Technology, Cambridge, MA, 02139-4307, USA

SOURCE: Perspectives on Protein Engineering '96,

[International Conference], 5th, Montpellier, Fr.,  
1996 (1996), Paper No. 26, 36 pp.. Editor(s): Geisow,  
Michael J. BIODIGM: Bingham, UK.  
CODEN: 64HIAR

DOCUMENT TYPE: Conference; (computer optical disk)  
LANGUAGE: English

AB Self-assembly of a class of oligopeptides into macroscopic matrixes in  
physiol. solns. was serendipitously discovered. This is a new class of  
beta-sheet ionic self-complementary oligopeptides with alternating  
hydrophilic and hydrophobic residues originally found in a segment of a  
yeast putative Z-DNA **protein**. The side chains of these  
oligopeptides consist of repetitive pos. charged residues Arg or Lys, and  
neg. charged residues Glu or Asp on the hydrophilic **surface**, and  
alanines on the hydrophobic **surface**. In most cases, these  
oligopeptides form stable b-sheets in water. A defining characteristic of  
this oligopeptides class is that their hydrophilic side chains can form  
complementary ionic bonds. Upon addition monovalent alkaline cations or  
introduction of the **peptide** solution into physiol. media, these  
oligopeptides spontaneously assemble to form macroscopic structures and  
can be processed to various geometric shapes. SEM reveals that the  
matrixes are made of interwoven filaments of approx. 10-20 nm in diameter and  
porous enclosures approx. 50-100nm in diameter. A variety of mammalian cell  
types has been shown to attach to the matrixes. These oligopeptides and  
the matrixes do not elicit a significant immune response in animals,  
presumably it is due to their highly hydrophilic property and sequences  
similarity with a segment found in intermediate neural filaments. These  
findings have significant implications for tissue engineering. This  
system is also of interest in **protein-protein**  
interactions and in modeling amyloid formation in a number of neurol.  
diseases.

=> s (protein or polypeptide or peptide) and (solid (w) substrate or surface or  
array)

3 FILES SEARCHED...

L4 461934 (PROTEIN OR POLYPEPTIDE OR PEPTIDE) AND (SOLID (W) SUBSTRATE OR  
SURFACE OR ARRAY)

=> s\_l4 and amino and terminus

L5 10160 L4 AND AMINO AND TERMINUS

=> s 15 and pattern

L6 374 L5 AND PATTERN

=> s\_l4 and amino and (terminus or terminal)

L7 32033 L4 AND AMINO AND (TERMINUS OR TERMINAL)

=> s 17 and pattern

L8 1199 L7 AND PATTERN

=> s 18 and cell and (growth or attach? or adhes?)

L9 239 L8 AND CELL AND (GROWTH OR ATTACH? OR ADHES?)

=> d scan

L9 239 ANSWERS BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI MOLECULAR CLONING AND ANALYSIS OF THE MOUSE HOMOLOGUE OF THE  
TUMOR-ASSOCIATED MUCIN MUC1 REVEALS CONSERVATION OF POTENTIAL O  
GLYCOSYLATION SITES TRANSMEMBRANE AND CYTOPLASMIC DOMAINS AND A LOSS OF  
MINISATELLITE-LIKE POLYMORPHISM.

IT Sequence Data

M64928: GENBANK

IT Miscellaneous Descriptors  
HUMAN COMPARISON COMPLEMENTARY DNA MOLECULAR SEQUENCE DATA NUCLEOTIDE  
SEQUENCE **AMINO** ACID SEQUENCE GENBANK-M64928 GENBANK-M65132  
EMBL-M64928 EMBL-M65132

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L9 239 ANSWERS CAPLUS COPYRIGHT 2004 ACS on STN  
CC 3-3 (Biochemical Genetics)  
Section cross-reference(s): 6, 12  
TI Selective sweep of a newly evolved sperm-specific gene in Drosophila  
ST Drosophila sperm gene evolution dynein sequence; Sdic Cdic gene axoneme  
dynein Drosophila  
IT Dyneins  
Gene, animal  
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL  
(Biological study)  
(Cdic (cytoplasmic dynein intermediate chain); Drosophila melanogaster  
gene coding for sperm-specific axonemal dynein subunit Sdic with  
**protein**-coding exon derived from intron in gene encoding  
cytoplasmic dynein intermediate chain)  
IT Testis  
(Drosophila melanogaster gene coding for sperm-specific axonemal dynein  
subunit Sdic with testes-specific promoter from **protein**  
-coding region in annexin X gene)  
IT Promoter (genetic element)  
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL  
(Biological study)  
(Drosophila melanogaster gene coding for sperm-specific axonemal dynein  
subunit Sdic with testes-specific promoter from **protein**  
-coding region in annexin X gene)  
IT Dyneins  
Gene, animal  
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL  
(Biological study)  
(Sdic (sperm-specific dynein intermediate chain); Drosophila  
melanogaster gene coding for sperm-specific axonemal dynein subunit  
Sdic)  
IT Annexins  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(X; Drosophila melanogaster gene coding for sperm-specific axonemal  
dynein subunit Sdic with testes-specific promoter from **protein**  
-coding region in annexin X gene)  
IT Flagella  
(axoneme; Drosophila melanogaster gene coding for sperm-specific  
axonemal dynein subunit Sdic)  
IT Genetic element  
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL  
(Biological study)  
(exon; Drosophila melanogaster gene coding for sperm-specific axonemal  
dynein subunit Sdic with **protein**-coding exon derived from  
intron in gene encoding cytoplasmic dynein intermediate chain Cdic)  
IT Genetic element  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(intron; Drosophila melanogaster gene coding for sperm-specific  
axonemal dynein subunit Sdic with **protein**-coding exon derived  
from intron in gene encoding cytoplasmic dynein intermediate chain  
Cdic)  
IT Evolution  
(mol.; selective sweep of newly evolved sperm-specific gene in  
Drosophila)  
IT DNA sequences



- Protein sequences**  
 cDNA sequences  
 (selective sweep of a newly evolved sperm-specific gene in *Drosophila*)
- IT 218268-45-2, *Drosophila melanogaster* Sperm  
 (selective sweep of newly evolved sperm-specific gene in *Drosophila*)
- IT 218268-45-2  
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)  
 (*Drosophila melanogaster* gene coding for sperm-specific axonemal dynein subunit Sdic with **protein**-coding exon derived from intron in gene encoding cytoplasmic dynein intermediate chain Cdic)
- IT 218134-66-8, Dynein (*Drosophila melanogaster* gene Sdic intermediate chain axonemal isoform N-terminal fragment) 218134-67-9, Dynein (*Drosophila melanogaster* gene Sdic intermediate chain axonemal isoform)  
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)  
 (amino acid sequence; *Drosophila melanogaster* gene coding for sperm-specific axonemal dynein subunit Sdic)
- IT 218134-65-7, Dynein (*Drosophila melanogaster* gene Cdic intermediate chain cytoplasmic isoform) 218134-79-3, Dynein (*Drosophila melanogaster* gene Cdic intermediate chain cytoplasmic isoform DIC1a) 218134-80-6, Dynein (*Drosophila melanogaster* gene Cdic intermediate chain cytoplasmic isoform DIC1b) 218134-81-7, Dynein (*Drosophila melanogaster* gene Cdic intermediate chain cytoplasmic isoform DIC1c) 218135-00-3, Dynein (*Drosophila melanogaster* gene Cdic intermediate chain cytoplasmic isoform DIC2a) 218135-09-2, Dynein (*Drosophila melanogaster* gene Cdic intermediate chain cytoplasmic isoform DIC2b) 218135-17-2, Dynein (*Drosophila melanogaster* gene Cdic intermediate chain cytoplasmic isoform DIC2c) 218135-25-2, Dynein (*Drosophila melanogaster* gene Cdic intermediate chain cytoplasmic isoform DIC3a) 218135-31-0, Dynein (*Drosophila melanogaster* gene Cdic intermediate chain cytoplasmic isoform DIC3b) 218135-39-8, Dynein (*Drosophila melanogaster* gene Cdic intermediate chain cytoplasmic isoform DIC4) 218135-46-7, Dynein (*Drosophila melanogaster* gene Cdic intermediate chain cytoplasmic isoform DIC5a) 218135-52-5, Dynein (*Drosophila melanogaster* gene Cdic intermediate chain cytoplasmic isoform DIC5b)  
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)  
 (amino acid sequence; *Drosophila melanogaster* gene coding for sperm-specific axonemal dynein subunit Sdic with **protein**-coding exon derived from intron in gene encoding cytoplasmic dynein intermediate chain Cdic)
- IT 218268-24-7, DNA (*Drosophila melanogaster* gene Sdic dynein intermediate chain axonemal isoform cDNA plus flanks)  
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)  
 (nucleotide sequence; *Drosophila melanogaster* gene coding for sperm-specific axonemal dynein subunit Sdic)
- IT 218268-25-8, DNA (*Drosophila melanogaster* gene Cdic dynein intermediate chain cytoplasmic isoform DIC1a cDNA plus flanks) 218268-26-9, DNA (*Drosophila melanogaster* gene Cdic dynein intermediate chain cytoplasmic isoform DIC1b cDNA) 218268-27-0, DNA (*Drosophila melanogaster* gene Cdic dynein intermediate chain cytoplasmic isoform DIC1c cDNA) 218268-28-1, DNA (*Drosophila melanogaster* gene Cdic dynein intermediate chain cytoplasmic isoform DIC2a cDNA plus flanks) 218268-29-2, DNA (*Drosophila melanogaster* gene Cdic dynein intermediate chain cytoplasmic isoform DIC2b cDNA) 218268-30-5, DNA (*Drosophila melanogaster* gene Cdic dynein intermediate chain cytoplasmic isoform DIC2c cDNA) 218268-31-6, DNA (*Drosophila melanogaster* gene Cdic dynein intermediate chain cytoplasmic isoform DIC3a cDNA) 218268-32-7, DNA (*Drosophila melanogaster* gene Cdic dynein intermediate chain cytoplasmic isoform DIC3b cDNA) 218268-33-8,

DNA (Drosophila melanogaster gene Cdic dynein intermediate chain cytoplasmic isoform DIC4 cDNA) 218268-34-9, DNA (Drosophila melanogaster gene Cdic dynein intermediate chain cytoplasmic isoform DIC5a cDNA plus 3'-flank) 218268-35-0, DNA (Drosophila melanogaster gene Cdic dynein intermediate chain cytoplasmic isoform DIC5b cDNA)  
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)  
 (nucleotide sequence; Drosophila melanogaster gene coding for sperm-specific axonemal dynein subunit Sdic with **protein** -coding exon derived from intron in gene encoding cytoplasmic dynein intermediate chain Cdic)

- L9 239 ANSWERS BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 TI Recombinant human prion **protein** mutants huPrP D178N/M129 (FFI) and huPrP+90R (fCJD) reveal proteinase K resistance.  
 IT Miscellaneous Descriptors  
     cell trafficking; glycosylation; processing
- L9 239 ANSWERS CAPLUS COPYRIGHT 2004 ACS on STN  
 CC 3-3 (Biochemical Genetics)  
 Section cross-reference(s): 7, 13  
 TI Expression of the  $\alpha(1,3)$  fucosyltransferase Fuc-TVII in lymphoid aggregate high endothelial venules correlates with expression of L-selectin ligands  
 ST mouse cDNA sequence FucTVII fucosyltransferase expression; Lselectin glycoprotein expression endothelium FucTVII mouse  
 IT Leukocyte  
     **Protein** sequences  
     (Fuc-TVII participation in generation of  $\alpha(1,3)$  fucosylated ligands for L-selectin and role in E- and P-selectin ligand expression in leukocytes)  
 IT Gene, animal  
 RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)  
     (Fuc-TVII; Fuc-TVII participation in generation of  $\alpha(1,3)$  fucosylated ligands for L-selectin and role in E- and P-selectin ligand expression in leukocytes)  
 IT Lymph node  
     (peripheral and mesenteric, tissue-specific expression; Fuc-TVII participation in generation of  $\alpha(1,3)$  fucosylated ligands for L-selectin and role in E- and P-selectin ligand expression in leukocytes)  
 IT Bone marrow  
     (tissue-specific expression; Fuc-TVII participation in generation of  $\alpha(1,3)$  fucosylated ligands for L-selectin and role in E- and P-selectin ligand expression in leukocytes)  
 IT Ribonucleic acids, messenger  
 RL: BOC (Biological occurrence); BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
     (tissue-specific expression; Fuc-TVII participation in generation of  $\alpha(1,3)$  fucosylated ligands for L-selectin and role in E- and P-selectin ligand expression in leukocytes)  
 IT Glycoproteins, specific or class  
 RL: BPR (Biological process); BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative); PROC (Process)  
     (L-selectins, maturation and modification of; Fuc-TVII participation in generation of  $\alpha(1,3)$  fucosylated ligands for L-selectin and role in E- and P-selectin ligand expression in leukocytes)  
 IT Lymph node  
     (Peyer's patch, tissue-specific expression; Fuc-TVII participation in

generation of  $\alpha(1,3)$  fucosylated ligands for L-selectin and role in E- and P-selectin ligand expression in leukocytes)

IT Deoxyribonucleic acid sequences  
(complementary, Fuc-TVII participation in generation of  $\alpha(1,3)$  fucosylated ligands for L-selectin and role in E- and P-selectin ligand expression in leukocytes)

IT Blood vessel  
(endothelium, tissue-specific expression; Fuc-TVII participation in generation of  $\alpha(1,3)$  fucosylated ligands for L-selectin and role in E- and P-selectin ligand expression in leukocytes)

IT 175451-79-3  
RL: PRP (Properties)  
(amino acid sequence; Fuc-TVII participation in generation of  $\alpha(1,3)$  fucosylated ligands for L-selectin and role in E- and P-selectin ligand expression in leukocytes)

IT 39279-34-0, e.c.2.4.1.152  
RL: PRP (Properties)  
(gene Fuc-TVII; Fuc-TVII participation in generation of  $\alpha(1,3)$  fucosylated ligands for L-selectin and role in E- and P-selectin ligand expression in leukocytes)

IT 173487-41-7, Genbank U45980  
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)  
(nucleotide sequence; Fuc-TVII participation in generation of  $\alpha(1,3)$  fucosylated ligands for L-selectin and role in E- and P-selectin ligand expression in leukocytes)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> d his

(FILE 'HOME' ENTERED AT 16:36:48 ON 15 AUG 2004)

FILE 'MEDLINE, BIOSIS, EMBASE, CAPLUS, WPIDS' ENTERED AT 16:38:53 ON 15 AUG 2004

E ZHANG S/AU  
E ZHANG SHUGUANG/AU

L1 181 S E3  
L2 13 S L1 AND (PROTEIN OR POLYPEPTIDE OR PEPTIDE) AND (SOLID (W) SUB.  
L3 11 DUP REM L2 (2 DUPLICATES REMOVED)  
L4 461934 S (PROTEIN OR POLYPEPTIDE OR PEPTIDE) AND (SOLID (W) SUBSTRATE  
L5 10160 S L4 AND AMINO AND TERMINUS  
L6 374 S L5 AND PATTERN  
L7 32033 S L4 AND AMINO AND (TERMINUS OR TERMINAL)  
L8 1199 S L7 AND PATTERN  
L9 239 S L8 AND CELL AND (GROWTH OR ATTACH? OR ADHES?)

=> s (protein or polypeptide or peptide) with (solid (w) substrate or surface or array)

MISSING OPERATOR PEPTIDE) WITH

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s (protein or polypeptide or peptide) (s) (solid (w) substrate or surface or array)

L10 200950 (PROTEIN OR POLYPEPTIDE OR PEPTIDE) (S) (SOLID (W) SUBSTRATE OR SURFACE OR ARRAY)

=> s amino (s) (terminus or terminal)

L11 286743 AMINO (S) (TERMINUS OR TERMINAL)

=> s l10 and l11

L12 11666 L10 AND L11

=> l12 and pattern

L12 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (=>).

=> s l12 and pattern

L13 410 L12 AND PATTERN

=> d scan

L13 410 ANSWERS BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
TI Characterization of Sequences within Heparin-binding EGF-like Growth  
Factor That Mediate Interaction with Heparin.  
IT Miscellaneous Descriptors  
ANALYTICAL METHOD; ARGININE; BINDING AFFINITY; DISULFIDE BONDING  
PATTERN; EPIDERMAL GROWTH FACTOR; LYSINE; MITOGEN; SULFATE  
PROTEOGLYCAN

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L13 410 ANSWERS CAPLUS COPYRIGHT 2004 ACS on STN  
CC 6-3 (General Biochemistry)  
TI Tpr, a large coiled coil **protein** whose **amino terminus** is involved in activation of oncogenic kinases, is localized to the cytoplasmic **surface** of the nuclear pore complex  
ST Tpr protein localization nuclear pore complex  
IT Cell nucleus  
(pore complex; Tpr **protein** is localized to cytoplasmic **surface** of nuclear pore complex of rat liver)  
IT Proteins, specific or class  
RL: BOC (Biological occurrence); BSU (Biological study, unclassified);  
BIOL (Biological study); OCCU (Occurrence)  
(gene tpr, Tpr **protein** is localized to cytoplasmic **surface** of nuclear pore complex of rat liver)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> d his

(FILE 'HOME' ENTERED AT 16:36:48 ON 15 AUG 2004)

FILE 'MEDLINE, BIOSIS, EMBASE, CAPLUS, WPIDS' ENTERED AT 16:38:53 ON 15  
AUG 2004

E ZHANG S/AU  
E ZHANG SHUGUANG/AU

L1 181 S E3  
L2 13 S L1 AND (PROTEIN OR POLYPEPTIDE OR PEPTIDE) AND (SOLID (W) SUB  
L3 11 DUP REM L2 (2 DUPLICATES REMOVED)  
L4 461934 S (PROTEIN OR POLYPEPTIDE OR PEPTIDE) AND (SOLID (W) SUBSTRATE  
L5 10160 S L4 AND AMINO AND TERMINUS  
L6 374 S L5 AND PATTERN  
L7 32033 S L4 AND AMINO AND (TERMINUS OR TERMINAL)  
L8 1199 S L7 AND PATTERN  
L9 239 S L8 AND CELL AND (GROWTH OR ATTACH? OR ADHES?)  
L10 200950 S (PROTEIN OR POLYPEPTIDE OR PEPTIDE) (S) (SOLID (W) SUBSTRATE  
L11 286743 S AMINO (S) (TERMINUS OR TERMINAL)  
L12 11666 S L10 AND L11  
L13 410 S L12 AND PATTERN

=> s (protein or polypeptide or peptide) (s) ((solid (w) substrate) or surface or array)

2 FILES SEARCHED...

L14 200950 (PROTEIN OR POLYPEPTIDE OR PEPTIDE) (S) ((SOLID (W) SUBSTRATE) OR SURFACE OR ARRAY)

=> s l3 and cell and (growth or attach? or adhes?)

L15 3 L3 AND CELL AND (GROWTH OR ATTACH? OR ADHES?)

=> s l13 and cell and (growth or attach? or adhes?)

L16 77 L13 AND CELL AND (GROWTH OR ATTACH? OR ADHES?)

=> dup rem

ENTER L# LIST OR (END):l16

PROCESSING COMPLETED FOR L16

L17 56 DUP REM L16 (21 DUPLICATES REMOVED)

=> t ti 1-56

L17 ANSWER 1 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

TI Targeted Expression of the Class II Phosphoinositide 3-Kinase in *Drosophila melanogaster* Reveals Lipid Kinase-Dependent Effects on Patterning and Interactions with Receptor Signaling Pathways.

L17 ANSWER 2 OF 56 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI Treating central nervous system and/or eye disorders comprises administering to a subject a composition comprising a compound that modulates a target gene or gene product, outside the blood-brain and/or blood-retina barriers.

L17 ANSWER 3 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

TI High-avidity, low-affinity multivalent interactions and the block to polyspermy in *Xenopus laevis*.

L17 ANSWER 4 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

TI Recombinant human prion protein mutants huPrP D178N/M129 (FFI) and huPrP+90R (fCJD) reveal proteinase K resistance.

L17 ANSWER 5 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

TI The receptor-bound N-terminal ectodomain of the amyloid precursor protein is associated with membrane rafts.

L17 ANSWER 6 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

TI Dependence of bacterial protein **adhesins** on toll-like receptors for proinflammatory cytokine induction.

L17 ANSWER 7 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

TI The structure of the archeobacterial flagellar filament of the extreme halophile *Halobacterium salinarum* R1M1 and its relation to eubacterial flagellar filaments and type IV pili.

L17 ANSWER 8 OF 56 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI Detecting **growth** hormone variants (GH1), useful in screening patients for **growth** hormone irregularities, comprises comparing the nucleotide sequence of a GH1 gene from a test sample with that of a standard sequence of the human GH1.

L17 ANSWER 9 OF 56 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 TI Enhancing bone formation, treating pathological dental condition and degenerative joint condition e.g. osteoporosis involves use of a compound that inhibits nuclear transcription factor beta or proteasome activity.

L17 ANSWER 10 OF 56 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 TI New fatty acid-modified NST 500 peptides, useful for treating, preventing and diagnosing conditions involving loss of cell membrane lipid asymmetry, e.g. thrombosis, sickle cell anemia, lupus erythematosus and apoptosis.

L17 ANSWER 11 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Molecular Cloning and Characterization of EndoGlyx-1, an EMILIN-like Multisubunit Glycoprotein of Vascular Endothelium.

L17 ANSWER 12 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Molecular Cloning and Characterization of Endosialin, a C-type Lectin-like Cell Surface Receptor of Tumor Endothelium.

L17 ANSWER 13 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI CLIP-50 immunolocalization during mouse spermiogenesis suggests a role in shaping the sperm nucleus.

L17 ANSWER 14 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Epitope mapping of the transforming growth factor- $\beta$  superfamily protein, macrophage inhibitory cytokine-1 (MIC-1): Identification of at least five distinct epitope specificities.

L17 ANSWER 15 OF 56 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 TI Methods and apparatus for detecting neurodegenerative diseases such as Alzheimer's, Parkinson's, Creutzfeldt Jakob disease and Kuru.

L17 ANSWER 16 OF 56 MEDLINE on STN  
 TI C-terminal domains of Na(+)/H(+) exchanger isoform 3 are involved in the basal and serum-stimulated membrane trafficking of the exchanger.

L17 ANSWER 17 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Design of highly immunogenic liposomal constructs combining structurally independent B cell and T helper cell peptide epitopes.

L17 ANSWER 18 OF 56 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1  
 TI Self-assembling peptide surfaces for cell patterning and interactions

L17 ANSWER 19 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI RoBo-1, a novel member of the urokinase plasminogen activator receptor/CD59/Ly-6/snake toxin family selectively expressed in rat bone and growth plate cartilage.

L17 ANSWER 20 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Mutation-directed chemical cross-linking of human immunodeficiency virus type 1 gp41 oligomers.

L17 ANSWER 21 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

TI Solution structure of the C-terminal SH2 domain of the p85 $\alpha$  regulatory subunit of phosphoinositide 3-kinase.

L17 ANSWER 22 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

TI Identification and characterization of K12 (SECTM1), a novel human gene that encodes a Golgi-associated protein with transmembrane and secreted isoforms.

L17 ANSWER 23 OF 56 MEDLINE on STN

TI Regulation of the phosphorylation of human pharyngeal cell proteins by group A streptococcal surface dehydrogenase: signal transduction between streptococci and pharyngeal cells.

L17 ANSWER 24 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

TI Vascular endothelial growth factor (VEGF) in normal human corneal epithelium: Detection and physiological importance.

L17 ANSWER 25 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

TI Cell-surface display of a Pseudomonas aeruginosa strain K pilin peptide within the paracrystalline S-layer of Caulobacter crescentus.

L17 ANSWER 26 OF 56 MEDLINE on STN DUPLICATE 2

TI Structure and function of the epidermal growth factor domain of P-selectin.

L17 ANSWER 27 OF 56 MEDLINE on STN DUPLICATE 3

TI Molecular cloning of F4/80, a murine macrophage-restricted cell surface glycoprotein with homology to the G-protein-linked transmembrane 7 hormone receptor family.

L17 ANSWER 28 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

TI A novel recognition site on laminin for the  $\alpha 3 \beta 1$  integrin.

L17 ANSWER 29 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

TI Structural and functional characterization of tenascin-R (restrictin), an extracellular matrix glycoprotein of glial cells and neurons.

L17 ANSWER 30 OF 56 MEDLINE on STN DUPLICATE 4

TI Characterization of cell lines allowing tightly regulated expression of hepatitis C virus core protein.

L17 ANSWER 31 OF 56 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 5

TI Evidence for the Presence of Collagenous Domains in Candida albicans Cell Surface Protein.

L17 ANSWER 32 OF 56 MEDLINE on STN DUPLICATE 6

TI Characterization of sequences within heparin-binding EGF-like growth factor that mediate interaction with heparin.

L17 ANSWER 33 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

TI Characterization of the synthesis and expression of the GTA-kinase from transformed and normal rodent cells.

L17 ANSWER 34 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN  
TI Role of FGFs in skeletal muscle and limb development.

L17 ANSWER 35 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN  
TI Identification and characterization of the human **cell**  
**adhesion** molecule contactin.

L17 ANSWER 36 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN  
TI Saturation mutagenesis of the human interleukin 6 receptor-binding site:  
Implications for its three-dimensional structure.

L17 ANSWER 37 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN  
TI T-cadherin 2: Molecular characterization, function in **cell**  
**adhesion**, and coexpression with T-cadherin and N-cadherin.

L17 ANSWER 38 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN  
TI Pleiotrophin is an abundant protein in dissociative extracts of bovine  
fetal epiphyseal cartilage and nasal cartilage from newborns.

L17 ANSWER 39 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN  
TI Moesin, like ezrin, colocalizes with actin in the cortical cytoskeleton in  
cultured cells, but its expression is more variable.

L17 ANSWER 40 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN  
TI Characterization of the nuclear translocation of acidic fibroblast  
**growth** factor.

L17 ANSWER 41 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN  
TI Identification of cysteine-rich domains of the type 1 tumor necrosis  
factor receptor involved in ligand binding.

L17 ANSWER 42 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN  
TI A plasmid-encoded type IV fimbrial gene of enteropathogenic Escherichia  
coli associated with localized adherence.

L17 ANSWER 43 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN  
TI A novel endothelial-specific membrane protein is a marker of **cell**  
**-cell** contacts.

L17 ANSWER 44 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN  
TI The E3-14.5K integral membrane protein of adenovirus that is required for  
down-regulation of the EGF receptor and for prevention of TNF cytolysis is  
O- glycosylated but not N-glycosylated.

L17 ANSWER 45 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN  
TI Neuronal **cell adhesion** molecule contactin/F11 binds to  
tenascin via its immunoglobulin-like domains.

L17 ANSWER 46 OF 56 MEDLINE on STN DUPLICATE 7  
TI Conversion of human interferon-beta from a secreted to a



phosphatidylinositol anchored protein by fusion of a 17 amino acid sequence to its carboxyl terminus.

- L17 ANSWER 47 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN
- TI Characterization of cDNA and genomic sequences encoding rabbit ELAM-1: Conservation of structure and functional interactions with leukocytes.
- L17 ANSWER 48 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN
- TI Distance between skeletal protein 4.1 and the erythrocyte membrane bilayer measured by resonance energy transfer.
- L17 ANSWER 49 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN
- TI A novel modular mosaic of cell adhesion motifs in the extracellular domains of the neurogenic trk and trkB tyrosine kinase receptors.
- L17 ANSWER 50 OF 56 MEDLINE on STN DUPLICATE 8
- TI Structural and functional characterization of the CD2 immunoadhesion domain. Evidence for inclusion of CD2 in an alpha-beta protein folding class.
- L17 ANSWER 51 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN
- TI Identification, localization, and primary structure of CAP-23, a particle-bound cytosolic protein of early development.
- L17 ANSWER 52 OF 56 MEDLINE on STN DUPLICATE 9
- TI Biochemical characterization of the Drosophila dpp protein, a member of the transforming growth factor beta family of growth factors.
- L17 ANSWER 53 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN
- TI Cloning and expression of a protective antigen from the cattle tick Boophilus microplus.
- L17 ANSWER 54 OF 56 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 10
- TI BINDING SITES OF ATTACHMENT-INHIBITING MONOCLONAL ANTIBODIES AND ANTIBODIES FROM PATIENTS ON PEPTIDE FRAGMENTS OF THE MYCOPLASMA-PNEUMONIAE ADHESIN.
- L17 ANSWER 55 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN
- TI Differentiation state-dependent surface mobilities of two forms of the neural cell adhesion molecule.
- L17 ANSWER 56 OF 56 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN
- TI Sequence of reovirus haemagglutinin predicts a coiled-coil structure.

=> d his

(FILE 'HOME' ENTERED AT 16:36:48 ON 15 AUG 2004)

FILE 'MEDLINE, BIOSIS, EMBASE, CAPLUS, WPIDS' ENTERED AT 16:38:53 ON 15  
AUG 2004

E ZHANG S/AU

E ZHANG SHUGUANG/AU

L1 181 S E3

L2 13 S L1 AND (PROTEIN OR POLYPEPTIDE OR PEPTIDE) AND (SOLID (W) SUB

L3 11 DUP REM L2 (2 DUPLICATES REMOVED)

L4 461934 S (PROTEIN OR POLYPEPTIDE OR PEPTIDE) AND (SOLID (W) SUBSTRATE

L5 10160 S L4 AND AMINO AND TERMINUS

L6 374 S L5 AND PATTERN

L7 32033 S L4 AND AMINO AND (TERMINUS OR TERMINAL)

L8 1199 S L7 AND PATTERN

L9 239 S L8 AND CELL AND (GROWTH OR ATTACH? OR ADHES?)

L10 200950 S (PROTEIN OR POLYPEPTIDE OR PEPTIDE) (S) (SOLID (W) SUBSTRATE

L11 286743 S AMINO (S) (TERMINUS OR TERMINAL)

L12 11666 S L10 AND L11

L13 410 S L12 AND PATTERN

L14 200950 S (PROTEIN OR POLYPEPTIDE OR PEPTIDE) (S) ((SOLID (W) SUBSTRATE

L15 3 S L3 AND CELL AND (GROWTH OR ATTACH? OR ADHES?)

L16 77 S L13 AND CELL AND (GROWTH OR ATTACH? OR ADHES?)

L17 56 DUP REM L16 (21 DUPLICATES REMOVED)

=> d ibib 117 18

L17 ANSWER 18 OF 56 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 1999:27864 CAPLUS

DOCUMENT NUMBER: 130:78440

TITLE: Self-assembling peptide surfaces for cell  
patterning and interactions

INVENTOR(S): Zhang, Shuguang; Rich, Alexander; Yan, Lin;  
Whitesides, George

PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA; President  
and Fellows of Harvard College

SOURCE: PCT Int. Appl., 50 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9858967	A1	19981230	WO 1998-US13110	19980624
W: CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 6368877	B1	20020409	US 1997-882415	19970625
US 2002072074	A1	20020613	US 2002-71500	20020208
US 2004023414	A1	20040205	US 2002-317838	20021211
PRIORITY APPLN. INFO.:			US 1997-882415	A 19970625
			US 2002-71500	A1 20020208
OTHER SOURCE(S):		MARPAT 130:78440		
REFERENCE COUNT:		7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

=> 113 not 117

L13 IS NOT A RECOGNIZED COMMAND

The previous command entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (=>).

=> s 113 not 117

L18 354 L13 NOT L17

=> dup rem l18

PROCESSING COMPLETED FOR L18

L19 219 DUP REM L18 (135 DUPLICATES REMOVED)

=> t ti l19 1-50

L19 ANSWER 1 OF 219 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI Identifying and designing compounds interacting with ErbB2, used in diagnosing diseases, involves assessing stereochemical complementarity between three-dimensional structure of amino acids 1-509 of ErbB2 polypeptide and candidate compound.

L19 ANSWER 2 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN

TI Characterization of recombinant **amino-terminal** NC4 domain of human collagen IX. Interaction with glycosaminoglycans and cartilage oligomeric matrix protein.

L19 ANSWER 3 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN

TI Peptaibol zervamicin IIB structure and dynamics refinement from transhydrogen bond J couplings.

L19 ANSWER 4 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN

TI The C-terminal juxtamembrane region of the  $\delta 2$  glutamate receptor controls its export from the endoplasmic reticulum.

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TI Human B lymphoblastoid cells contain distinct patterns of cathepsin activity in endocytic compartments and regulate MHC class II transport in a cathepsin S-independent manner.

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TI The crystal structure of YloQ, a circularly permuted GTPase essential for *Bacillus subtilis* viability.

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TI The second extracellular loop of the dopamine D(2) receptor lines the binding-site crevice.

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TI Immunodominant B-Cell Epitope in the McelA Mammalian Cell Entry Protein of *Mycobacterium tuberculosis* Cross-Reacting with Glutathione S-Transferase.

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TI A gradient of TFF3 (trefoil factor family 3) peptide synthesis within the normal human gastric mucosa.

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TI Loop X/XI, the largest cytoplasmic loop in the membrane-bound melibiose carrier of *Escherichia coli*, is a functional re-entrant loop.

L19 ANSWER 11 OF 219 MEDLINE on STN DUPLICATE 1

TI Cleavage and serum reactivity of the severe acute respiratory syndrome coronavirus spike protein.

L19 ANSWER 12 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Functional significance of the BBXXB motif reversed present in the cytoplasmic domains of the human follicle-stimulating hormone receptor.

L19 ANSWER 13 OF 219 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 TI Spotting probes on to solid support, useful for making arrays for detecting specific targets, uses an ink-jet method to deposit exact spots at high density.

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 TI Cellular recognition of tri-/di-palmitoylated peptides is independent from a domain encompassing the N-terminal seven leucine-rich repeat (LRR)/LRR-like motifs of TLR2.

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 TI Norwalk Virus Nonstructural Protein p48 Forms a Complex with the SNARE Regulator VAP-A and Prevents Cell Surface Expression of Vesicular Stomatitis Virus G Protein.

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 TI Protein domains, catalytic activity, and subcellular distribution of neuropathy target esterase in mammalian cells.

L19 ANSWER 17 OF 219 MEDLINE on STN DUPLICATE 2  
 TI Tat-neutralizing antibodies in vaccinated macaques.

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 TI Molecular strategies in biological evolution of antimicrobial peptides.

L19 ANSWER 19 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI pH-dependent translocation of  $\alpha$ -tocopherol transfer protein ( $\alpha$ -TTP) between hepatic cytosol and late endosomes.

L19 ANSWER 20 OF 219 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 3  
 TI Analysis of the quorum-sensing regulon of the opportunistic pathogen Burkholderia cepacia H111 by proteomics.

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 TI Peptide Library Approach with a Disulfide Tether to Refine the Tom20 Recognition Motif in Mitochondrial Presequences.

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 TI Conformation of PrP(C) on the cell surface as probed by antibodies.

L19 ANSWER 23 OF 219 MEDLINE on STN DUPLICATE 4  
 TI Residues of VP26 of herpes simplex virus type 1 that are required for its interaction with capsids.

L19 ANSWER 24 OF 219 MEDLINE on STN  
 TI Influence of deleting 9 amino acid residues at N-terminus on immunogenicity of a Plasmodium falciparum chimeric protein.

- L19 ANSWER 25 OF 219 MEDLINE on STN DUPLICATE 5  
 TI CD36/fatty acid translocase in rats: distribution, isolation from hepatocytes, and comparison with the scavenger receptor SR-B1.
- L19 ANSWER 26 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Apoptosis-related fragmentation, translocation, and properties of human prothymosin alpha.
- L19 ANSWER 27 OF 219 MEDLINE on STN DUPLICATE 6  
 TI Nonproteolytic serine proteinase homologs are involved in prophenoloxidase activation in the tobacco hornworm, *Manduca sexta*.
- L19 ANSWER 28 OF 219 MEDLINE on STN DUPLICATE 7  
 TI Divergent effects of two sequence variants of GJB3 (G12D and R32W) on the function of connexin 31 in vitro.
- L19 ANSWER 29 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Overexpression of CYP4G19 associated with a pyrethroid-resistant strain of the German cockroach, *Blattella germanica* (L.).
- L19 ANSWER 30 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Mutations in the N-terminus of the major coat protein (pVIII, gp8) of filamentous bacteriophage affect infectivity.
- L19 ANSWER 31 OF 219 MEDLINE on STN DUPLICATE 8  
 TI Purification and characterization of a new hyperthermostable, allosamidin-insensitive and denaturation-resistant chitinase from the hyperthermophilic archaeon *Thermococcus chitonophagus*.
- L19 ANSWER 32 OF 219 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 TI Human CD30: Structural implications from epitope mapping and modeling studies.
- L19 ANSWER 33 OF 219 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 TI Identifying a **protein**, comprises cleaving the **protein**, contacting the fragments with an **array** having a solution set of binding reagents, detecting the binding **pattern** of the fragments on the **array**, and comparing to a reference set.
- L19 ANSWER 34 OF 219 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 TI New biosensor comprising a chimeric olfactory receptor protein for binding olfactant, useful harsh or changeable environment conditions, particularly for identifying olfactants, e.g. chemical or biological agents or explosives.
- L19 ANSWER 35 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Sex-specific gene regulation: The doublesex DM motif is a bipartite DNA-binding domain.
- L19 ANSWER 36 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Alternative splicing of  $\beta(4)$  subunit proline-rich motif regulates voltage-dependent gating and toxin block of  $\text{Ca(v)2.1}$   $\text{Ca(2+)}$  channels.
- L19 ANSWER 37 OF 219 MEDLINE on STN DUPLICATE 9  
 TI The PDZ-interacting domain of TRPC4 controls its localization and surface expression in HEK293 cells.

L19 ANSWER 38 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Spatial structure of zervamicin IIB bound to DPC micelles: Implications for voltage-gating.

L19 ANSWER 39 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI In vitro folding, functional characterization, and disulfide **pattern** of the extracellular domain of human GLP-1 receptor.

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 TI Immunological response mounted by Aboriginal Australians living in the Northern Territory of Australia against Streptococcus pyogenes serum opacity factor.

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 TI Differential localization of chicken FIP2 homologue, Ag-9C5, in secretory epithelial cells.

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 TI Single amino acid residue influences the distribution **pattern** of an inwardly rectifying potassium channel in polarized cells.

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 TI Structure of the Rhodobacter sphaeroides light-harvesting 1  $\beta$  subunit in detergent micelles.

L19 ANSWER 44 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Synthesis of oligopeptides with the sequence SXWS and their chemotactic effects on a ciliated protozoan Tetrahymena pyriformis.

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 TI CLONING AND CHARACTERIZATION OF A NOVEL VARIANT OF RAT GABABR1 WITH TRUNCATED C TERMINUS.

L19 ANSWER 46 OF 219 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 TI Imprint composition, useful for capturing selected macromolecules, e.g. for expression profiling, comprises matrix defining imprint cavity of template that is part of the target.

L19 ANSWER 47 OF 219 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 TI Crystallized molecular complex of the nuclear phosphoprotein E2 N-terminal module useful in drug design for the treatment of conditions associated with human papilloma virus infection.

L19 ANSWER 48 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI NHE6 Protein Possesses a Signal Peptide Destined for Endoplasmic Reticulum Membrane and Localizes in Secretory Organelles of the Cell.

L19 ANSWER 49 OF 219 MEDLINE on STN DUPLICATE 11  
 TI Tumor necrosis factor-alpha-induced adipose-related **protein** (TIARP), a cell-**surface protein** that is highly induced by tumor necrosis factor-alpha and adipose conversion.

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TI Expression **Pattern** and Secretion of Human and Chicken Heparanase  
Are Determined by Their Signal Peptide Sequence.

=> t ti 119 51-100

- L19 ANSWER 51 OF 219 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Molecular cloning and characterization of endosialin, a C-type lectin-like cell surface receptor of tumor endothelium
- L19 ANSWER 52 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Secondary structure and position of the cell-penetrating peptide transportan in SDS micelles as determined by NMR.
- L19 ANSWER 53 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Retargeting of the mitochondrial **protein** p32/gClQr to a cytoplasmic compartment and the cell **surface**.
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TI Regulation of Wnt signaling and embryo patterning by an extracellular sulfatase.
- L19 ANSWER 55 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Arrestin effects on internalization of vasopressin receptors.
- L19 ANSWER 56 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Structural characterization of the N-terminal oligomerization domain of the bacterial chromatin-structuring protein, H-NS H-NS.
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TI Role of individual amino acids of apolipoprotein A-I in the activation of lecithin:cholesterol acyltransferase and in HDL rearrangements.
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TI The cluster of BTN genes in the extended major histocompatibility complex.
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TI Molecular architecture of the voltage-dependent Na channel: Functional evidence for  $\alpha$  helices in the pore.
- L19 ANSWER 60 OF 219 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
TI Crystallization and x-ray diffraction of the **amino-terminal** domain of the group B Streptococcus alpha C protein.
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TI Impact of epitope permutations in the antibody response of mice to a multi-epitope polypeptide of the V3 loop of human immunodeficiency virus type 1.
- L19 ANSWER 62 OF 219 MEDLINE on STN DUPLICATE 12  
TI The merozoite **surface protein** 6 gene codes for a 36 kDa **protein** associated with the Plasmodium falciparum merozoite **surface protein**-1 complex.

- L19 ANSWER 63 OF 219 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 13
- TI Internalization of mammalian fluorescent cellular prion protein and  
N-terminal deletion mutants in living cells.
- L19 ANSWER 64 OF 219 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
- TI New Shank polypeptide for identifying Shank protein modulator compounds  
used to treat Alzheimer's disease and stroke, comprises an ankyrin domain,  
SH3 domain, PDZ domain, proline-rich domain, and SAM domain .
- L19 ANSWER 65 OF 219 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
- TI Antibacterial compounds comprise saccharide with transglycosylase activity  
linked, directly or through difunctional linker to non-saccharide compound  
capable of binding cell-surface peptide or  
protein.
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- TI GAS41, a highly conserved protein in eukaryotic nuclei, binds to NuMA.
- L19 ANSWER 67 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
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- TI Specificity of the binding of synapsin I to Src homology 3 domains.
- L19 ANSWER 68 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
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- TI Gene 33/mig-6, a transcriptionally inducible adapter protein that binds  
GTP-Cdc42 and activates SAPK/JNK. A potential marker transcript for  
chronic pathologic conditions, such as diabetic nephropathy. Possible role  
in the response to persistent stress.
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- TI Intracellular localization of vaccinia virus extracellular enveloped virus  
envelope proteins individually expressed using a Semliki Forest virus  
replicon.
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- TI The N-terminal fragment of human parathyroid hormone receptor 1  
constitutes a hormone binding domain and reveals a distinct disulfide  
pattern.
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- TI Localization of human immunodeficiency virus type 1 Gag and Env at the  
plasma membrane by confocal imaging.
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- TI Identification and characterization of an amino acid transporter expressed  
differentially in liver.
- L19 ANSWER 73 OF 219 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 14
- TI C-terminal domains of Na<sup>+</sup>/H<sup>+</sup> exchanger isoform 3 are involved in the basal  
and serum-stimulated membrane trafficking of the exchanger.
- L19 ANSWER 74 OF 219 MEDLINE on STN DUPLICATE 15
- TI Solution structure of a zinc substituted eukaryotic rubredoxin from the  
cryptomonad alga Guillardia theta.



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 TI Determination of the origin of charge heterogeneity in a murine monoclonal antibody.

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 TI Classification of adhesive domains in the Plasmodium falciparum Erythrocyte Membrane Protein 1 family.

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 TI Molecular construction of a multidrug exporter system, AcrAB: Molecular interaction between AcrA and AcrB, and cleavage of the N-terminal signal sequence of AcrA.

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 TI Cell-substrate interactions during sea urchin gastrulation: Migrating primary mesenchyme cells interact with and align extracellular matrix fibers that contain ECM3, a molecule with NG2-like and multiple calcium-binding domains.

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 TI Conservation and variation in superantigen structure and activity highlighted by the three-dimensional structures of two new superantigens from Streptococcus pyogenes.

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 TI Membrane-type 6 matrix metalloproteinase (MT6-MMP, MMP-25) is the second glycosyl-phosphatidyl inositol (GPI)-anchored MMP.

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 TI Characterization of high affinity monoclonal antibodies specific for chlamydial lipopolysaccharide.

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 TI UNCL, the mammalian homologue of UNC-50, is an inner nuclear membrane RNA-binding protein.

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 TI Detecting an indicator to determine if an animal has high innate resistance to pathogens.

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 TI Cloning and expression of a novel galactoside  $\beta$ 1,3-glucuronyltransferase involved in the biosynthesis of HNK-1 epitope.

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 TI Sonic hedgehog protein signals not as a hydrolytic enzyme but as an apparent ligand for Patched.

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 TI Signaling domain of the aspartate receptor is a helical hairpin with a localized kinase docking surface: Cysteine and disulfide scanning studies.

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TI Genetic and functional characterization of the alpAB gene locus essential  
for the adhesion of Helicobacter pylori to human gastric tissue.

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TI Role of individual surface charges of voltage-gated K channels.

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TI Clusters of GABA(A) receptors on cultured hippocampal cells correlate only  
partially with functional synapses.

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TI Direct and reversed sequence site analysis: Implications for non-  
consensus sites identification and protein sequence comparison.

L19 ANSWER 91 OF 219 MEDLINE on STN DUPLICATE 17  
TI Hydrophobic **protein** synthesized in the pod endocarp adheres to  
the seed **surface**.

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TI Phosphoglycosylation of a secreted acid phosphatase from Leishmania  
donovani.

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TI Evolutionary conservation and somatic mutation hotspot maps of p53:  
Correlation with p53 protein structural and functional features.

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TI Turnover analysis of glutamate receptors identifies a rapidly degraded  
pool of the N-methyl-D-aspartate receptor subunit, NR1, in cultured  
cerebellar granule cells.

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TI Cellular distribution of a mixed MHC class II heterodimer between  
DR $\alpha$  and a chimeric DO $\beta$  chain.

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TI T cell response **pattern** to glutamic acid decarboxylase 65  
(GAD65) peptides of newly diagnosed type 1 diabetic patients sharing  
susceptible HLA haplotypes.

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TI New assembled peptide structures - comprising linear peptides bound  
directly to a solid support through a **terminal amino**  
acid in a predetermined **pattern**.

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TI Determination of the disulfide bonds within a B domain variant surface  
glycoprotein from Trypanosoma congolense.

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TI Separate signals for agonist-independent and agonist-triggered trafficking of protease-activated receptor 1.

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TI Crystal structure of the BTB domain from PLZF.

=> t ti 119 101-150

L19 ANSWER 101 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN

TI Mammalian cytidine 5'-monophosphate N-acetylneuraminic acid synthetase: A nuclear protein with evolutionarily conserved structural motifs.

L19 ANSWER 102 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN

TI Identification of three differentially expressed hydrophobins in *Pleurotus ostreatus* (oyster mushroom).

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TI Rh-deficiency of the regulator type caused by splicing mutations in the human RH50 gene.

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TI Molecular evolution of olfactomedin.

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TI The rat  $\alpha$ -1,3-fucosyltransferase (rFucT-IV) gene encodes both long and short forms of the enzyme which share the same intracellular location.

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TI Identification of a TRAF (TNF receptor-associated factor) gene in *Caenorhabditis elegans*.

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TI Point mutations in the  $\beta$  chain CDR3 can alter the T cell receptor recognition pattern on an MHC class I/peptide complex over a broad interface area.

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TI Hepatic lipase deficiency.

L19 ANSWER 109 OF 219 MEDLINE on STN DUPLICATE 18

TI Evolution of olfactomedin. Structural constraints and conservation of primary sequence motifs.

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TI Microfibrillar composition of umbilical cord matrix: Characterization of fibrillin, collagen VI and intact collagen V.

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TI *Plasmodium yoelii* YM MAEBL protein is coexpressed and colocalizes with rhoptry proteins.

L19 ANSWER 112 OF 219 MEDLINE on STN DUPLICATE 19  
 TI The hydrophobic domains in the carboxyl-terminal signal for GPI modification and in the amino-terminal leader peptide have similar structural requirements.

L19 ANSWER 113 OF 219 MEDLINE on STN DUPLICATE 20  
 TI Definition of extracellular localized epitopes of Hsp70 involved in an NK immune response.

L19 ANSWER 114 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI A second merozoite surface protein (MSP-4) of Plasmodium falciparum that contains an epidermal growth factor-like domain.

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 TI Regulation of the phosphorylation of human pharyngeal cell proteins by group A streptococcal surface dehydrogenase: Signal transduction between streptococci and pharyngeal cells.

L19 ANSWER 116 OF 219 MEDLINE on STN DUPLICATE 22  
 TI Identification of epitopes on a mutant form of Pseudomonas exotoxin using serum from humans treated with Pseudomonas exotoxin containing immunotoxins.

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 TI Solution structure of the albumin-binding GA module: A versatile bacterial protein domain.

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 TI Molecular characterization of abLIM, a novel actin-binding and double zinc finger protein.

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 TI High-resolution solution structure of human pNR-2/ps2: A single trefoil motif protein.

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 TI Functional interactions between the proline-rich and repeat regions of tau enhance microtubule binding and assembly.

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 TI NMR structure of inactivation gates from mammalian voltage-dependent potassium channels.

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 TI When a module is also a domain: The role of the N terminus in the stability and the dynamics of immunoglobulin domains from titin.

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 TI Hydrophobically induced conformation in ovine corticotropin-releasing hormone.

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 TI Human endometrial transforming growth factor- $\alpha$ : A transmembrane, **surface** epithelial **protein** that transiently disappears during the midsecretory phase of the menstrual cycle.

L19 ANSWER 125 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Evidence for distinct serine protease activities with a potential role in processing the sperm protein fertilin.

L19 ANSWER 126 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Purification and characterization of hepsin from rat liver microsomes.

L19 ANSWER 127 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Rapid identification of phosphopeptide ligands for SH2 domains. Screening of peptide libraries by fluorescence-activated bead sorting.

L19 ANSWER 128 OF 219 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 DUPLICATE 23  
 TI Structure and function of the epidermal growth factor domain of P-selectin.

L19 ANSWER 129 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI A protective **surface protein** from type V group B streptococci shares N- terminal sequence homology with the alpha C **protein**.

L19 ANSWER 130 OF 219 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 TI Characterization of chimeras between the ecotropic Moloney murine leukemia virus and the amphotropic 4070A envelope proteins.

L19 ANSWER 131 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Molecular basis of size and antigenic variation of a Mycoplasma hominis adhesin encoded by divergent vaa genes.

L19 ANSWER 132 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Novel isolation method and structural stability of a eukaryotic chaperonin: The TCP-1 ring complex from rabbit reticulocytes.

L19 ANSWER 133 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Hyperthermostable **surface** layer **protein** tetrabrachion from the archaeobacterium Staphylothermus marinus: Evidence for the presence of a right-handed coiled coil derived from the primary structure.

L19 ANSWER 134 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Overexpression of cytoplasmic dynein's globular head causes a collapse of the interphase microtubule network in Dictyostelium.

L19 ANSWER 135 OF 219 MEDLINE on STN DUPLICATE 24  
 TI Crystal structure of the yeast TFIIA/TBP/DNA complex.

L19 ANSWER 136 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Synthesis and solution structure of the antimicrobial peptide protegrin-1.

L19 ANSWER 137 OF 219 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 25

TI Molecular cloning of F4/80, a murine macrophage-restricted cell  
**surface** glycoprotein with homology to the G-protein  
-linked transmembrane 7 hormone receptor family.

L19 ANSWER 138 OF 219 CAPLUS COPYRIGHT 2004 ACS on STN

TI Expression of MUC1 mucin gene by hamster tracheal surface epithelial cells  
in primary culture

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RESERVED. on STN

TI Biochemical evidence that patched is the hedgehog receptor.

L19 ANSWER 140 OF 219 CAPLUS COPYRIGHT 2004 ACS on STN

TI Subcellular localization and toxicity of pre-amyloid and fibrillar prion  
protein accumulations in murine scrapie

L19 ANSWER 141 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN

TI Effect of context and adjuvant on the immunogenicity of recombinant  
proteins and **peptide** conjugates derived from the polymorphic  
malarial **surface** antigen MSA2.

L19 ANSWER 142 OF 219 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 26

TI Characterization of cell lines allowing tightly regulated expression of  
hepatitis C virus core protein.

L19 ANSWER 143 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN

TI Organization of SCPl protein molecules within synaptonemal complexes of  
the rat.

L19 ANSWER 144 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN

TI Analysis of ligand binding to the  $\alpha 2$ -macroglobulin receptor/low  
density lipoprotein receptor-related protein. Evidence that lipoprotein  
lipase and the carboxyl-terminal domain of the receptor-associated protein  
bind to the same site.

L19 ANSWER 145 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN

TI Structure and stability of **protein H** and the M1 **protein**  
from Streptococcus pyogenes. Implications for other **surface**  
proteins of gram-positive bacteria.

L19 ANSWER 146 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN

TI Early and late antibody responses to full-length and truncated constructs  
of outer **surface protein A** of Borrelia burgdorferi in  
Lyme disease.

L19 ANSWER 147 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN DUPLICATE 27

TI Evidence for the presence of collagenous domains in Candida albicans cell  
surface proteins.

L19 ANSWER 148 OF 219 MEDLINE on STN DUPLICATE 28

TI Identification and characterization of a **surface-exposed**,  
66-kilodalton **protein** from Borrelia burgdorferi.

- L19 ANSWER 149 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Molecular analysis of genes encoding outer **surface protein C** (OspC) of *Borrelia burgdorferi* sensu lato: Relationship to ospA genotype and evidence of lateral gene exchange of ospC.
- L19 ANSWER 150 OF 219 MEDLINE on STN DUPLICATE 29  
TI Distribution of carboxypeptidase M on lymphoid and myeloid cells parallels the other zinc-dependent proteases CD10 and CD13.

=> t ti l19 151-200

- L19 ANSWER 151 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 30  
TI A cytokeratin 8-like protein with plasminogen-binding activity is present on the external surfaces of hepatocytes, HepG2 cells and breast carcinoma cell lines.
- L19 ANSWER 152 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Secondary structure model for the last two domains of single-stranded RNA phage Q $\beta$ .
- L19 ANSWER 153 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Characterisation of the Sek-1 receptor tyrosine kinase.
- L19 ANSWER 154 OF 219 MEDLINE on STN DUPLICATE 31  
TI Unique insertion sequence and **pattern** of CD4 expression in variants selected with immunotoxins from human immunodeficiency virus type 1-infected T cells.
- L19 ANSWER 155 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Surface-induced alterations in the kinetic pathway for cleavage of human high molecular weight kininogen by plasma kallikrein.
- L19 ANSWER 156 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Structural elements in glycoprotein 70 from polytropic Friend mink cell focus-inducing virus and glycoprotein 71 from ecotropic Friend murine leukemia virus, as defined by disulfide-bonding **pattern** and limited proteolysis.
- L19 ANSWER 157 OF 219 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 32  
TI Characterization of Sequences within Heparin-binding EGF-like Growth Factor That Mediate Interaction with Heparin.
- L19 ANSWER 158 OF 219 MEDLINE on STN DUPLICATE 33  
TI Tpr, a large coiled coil **protein** whose **amino terminus** is involved in activation of oncogenic kinases, is localized to the cytoplasmic **surface** of the nuclear pore complex.
- L19 ANSWER 159 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI The *Drosophila* l(2)35Ba/nocA gene encodes a putative Zn finger protein involved in the development of the embryonic brain and the adult ocellar structures.

- L19 ANSWER 160 OF 219 MEDLINE on STN DUPLICATE 34  
TI Genetic studies of the lac repressor. XIV. Analysis of 4000 altered Escherichia coli lac repressors reveals essential and non-essential residues, as well as "spacers" which do not require a specific sequence.
- L19 ANSWER 161 OF 219 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 35  
TI Molecular models and structural comparisons of native and mutant class I filamentous bacteriophages: Ff (fd, fl, M13), Ifl and Ike.
- L19 ANSWER 162 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 36  
TI Characterization of a polymorphic family of integral membrane proteins in promastigotes of different Leishmania species.
- L19 ANSWER 163 OF 219 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
TI Unique insertion sequence and **pattern** of CD4 expression in variants selected with immunotoxins from human immunodeficiency virus type 1-infected T cells.
- L19 ANSWER 164 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Substituting isoserine for serine in the thrombin receptor activation peptide SFLLRN confers resistance to aminopeptidase M-induced cleavage and inactivation.
- L19 ANSWER 165 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI A tobacco gene family for flower cell wall proteins with a proline-rich domain and a cysteine-rich domain.
- L19 ANSWER 166 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Comparative analysis of flagellin sequences from Escherichia coli strains possessing serologically distinct flagellar filaments with a shared complex surface **pattern**.
- L19 ANSWER 167 OF 219 MEDLINE on STN DUPLICATE 37  
TI **Protein** rib: a novel group B streptococcal cell **surface protein** that confers protective immunity and is expressed by most strains causing invasive infections.
- L19 ANSWER 168 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Immunofluorescent studies of tissue factor on U87MG cells: Evidence for non-uniform distribution.
- L19 ANSWER 169 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI FL-160 proteins of Trypanosoma cruzi are expressed from a multigene family and contain two distinct epitopes that mimic nervous tissues.
- L19 ANSWER 170 OF 219 MEDLINE on STN DUPLICATE 38  
TI Analysis of mixed parasite populations of Theileria sergenti using cDNA probes encoding a major piroplasm **surface protein**.
- L19 ANSWER 171 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Characterization of a stable, reactivatable complex between chaperonin 60 and mitochondrial rhodanese.



- L19 ANSWER 172 OF 219 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 TI REQUIREMENT OF HYDROPHILIC **AMINO-TERMINAL** RESIDUES FOR GRANULOCYTE-MACROPHAGE COLONY-STIMULATING FACTOR BIOACTIVITY AND RECEPTOR BINDING.
- L19 ANSWER 173 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Large, identical, tandem repeating units in the C protein alpha antigen gene, bca, of group B streptococci.
- L19 ANSWER 174 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Internalization of the urokinase-plasminogen activator inhibitor type-1 complex is mediated by the urokinase receptor.
- L19 ANSWER 175 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Molecular cloning of murine 72-kDa type IV collagenase and its expression during mouse development.
- L19 ANSWER 176 OF 219 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Genetic relationship of putative colonization factor O166 to colonization factor antigen I and coli surface antigen 4 of enterotoxigenic Escherichia coli
- L19 ANSWER 177 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Developmental regulation of surfactant-associated proteins in rabbit fetal lung in vivo.
- L19 ANSWER 178 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Chemoreceptor A-fibres in the human carotid body contain tyrosine hydroxylase and neurofilament immunoreactivity.
- L19 ANSWER 179 OF 219 MEDLINE on STN DUPLICATE 39  
 TI Analysis of the genomic and derived protein structure of a novel human serum amyloid A gene, SAA4.
- L19 ANSWER 180 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Recurrent  $\alpha\beta$  loop structures in TIM barrel motifs show a distinct **pattern** of conserved structural features.
- L19 ANSWER 181 OF 219 MEDLINE on STN DUPLICATE 40  
 TI Analysis of kidney mRNAs expressed from the rat beta-galactoside alpha 2,6-sialyltransferase gene.
- L19 ANSWER 182 OF 219 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 41  
 TI CONVERSION OF HUMAN INTERFERON-BETA FROM A SECRETED TO A PHOSPHATIDYLINOSITOL ANCHORED PROTEIN BY FUSION OF A 17 **AMINO ACID SEQUENCE TO ITS CARBOXYL TERMINUS.**
- L19 ANSWER 183 OF 219 MEDLINE on STN DUPLICATE 42  
 TI Neutralization-sensitive merozoite surface antigens of Babesia bovis encoded by members of a polymorphic gene family.
- L19 ANSWER 184 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 TI Molecular cloning and analysis of the mouse homologue of the tumor-associated mucin, MUC1, reveals conservation of potential

O-glycosylation sites, transmembrane, and cytoplasmic domains and a loss of minisatellite-like polymorphism.

- L19 ANSWER 185 OF 219 MEDLINE on STN DUPLICATE 43  
TI A 14-kDa Schistosoma mansoni polypeptide is homologous to a gene family of fatty acid binding proteins.
- L19 ANSWER 186 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Signal peptide analogs derived from two chloroplast precursors interact with the signal recognition system of the chloroplast envelope.
- L19 ANSWER 187 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Common and variable domains of the flagellin gene, flaA, in Campylobacter jejuni.
- L19 ANSWER 188 OF 219 MEDLINE on STN DUPLICATE 44  
TI Cysteine residue periodicity is a conserved structural feature of variable surface proteins from Paramecium tetraurelia.
- L19 ANSWER 189 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Variant specific glycoprotein of Trypanosoma brucei consists of two domains each having an independently conserved pattern of cysteine residues.
- L19 ANSWER 190 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Evidence that thymocyte-activating molecule is mouse CD26 (dipeptidyl peptidase IV).
- L19 ANSWER 191 OF 219 MEDLINE on STN DUPLICATE 45  
TI Neutron diffraction studies of the structure of filamentous bacteriophage Pfl. Demonstration that the coat protein consists of a pair of alpha-helices with an intervening, non-helical surface loop.
- L19 ANSWER 192 OF 219 MEDLINE on STN DUPLICATE 46  
TI Variant surface glycoprotein from Trypanosoma brucei clone Ytat 1.1 contains a latent calmodulin-binding domain.
- L19 ANSWER 193 OF 219 MEDLINE on STN DUPLICATE 47  
TI Cloning and sequence analysis of the Schistosoma mansoni membrane glycoprotein antigen gene GP22.
- L19 ANSWER 194 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
TI Amino acid sequence analysis of proteins in the human corneal stromal cell membrane.
- L19 ANSWER 195 OF 219 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 48  
TI STRUCTURAL AND FUNCTIONAL CHARACTERIZATION OF THE CD2 IMMUNOADHESION DOMAIN EVIDENCE FOR INCLUSION OF CD2 IN AN ALPHA-BETA PROTEIN FOLDING CLASS.
- L19 ANSWER 196 OF 219 MEDLINE on STN DUPLICATE 49  
TI Primary structure and glycosylation of the S-layer protein of Haloferax volcanii.
- L19 ANSWER 197 OF 219 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 50

TI BIOCHEMICAL CHARACTERIZATION OF THE DROSOPHILA DPP PROTEIN A MEMBER OF THE TRANSFORMING GROWTH FACTOR BETA FAMILY OF GROWTH FACTORS.

L19 ANSWER 198 OF 219 MEDLINE on STN DUPLICATE 51

TI Crystallographic refinement and structure of ribulose-1,5-bisphosphate carboxylase from *Rhodospirillum rubrum* at 1.7 Å resolution.

L19 ANSWER 199 OF 219 CAPLUS COPYRIGHT 2004 ACS on STN

TI Intermediate filaments vimentin and desmin share epitopes with M1 protein of group A streptococci

L19 ANSWER 200 OF 219 MEDLINE on STN DUPLICATE 52

TI Molecular cloning of a histidine-rich Ca<sup>2+</sup>-binding protein of sarcoplasmic reticulum that contains highly conserved repeated elements.

=> t ti 119 201-219

L19 ANSWER 201 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN

TI The amino and carboxyl termini of the *Neurospora* plasma membrane H<sup>+</sup>-ATPase are cytoplasmically located.

L19 ANSWER 202 OF 219 MEDLINE on STN DUPLICATE 53

TI Binding sites of attachment-inhibiting monoclonal antibodies and antibodies from patients on peptide fragments of the *Mycoplasma pneumoniae* adhesin.

L19 ANSWER 203 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN

TI Characterisation of the dihydrofolate reductase-thymidylate synthetase gene from human malaria parasites highly resistant to pyrimethamine.

L19 ANSWER 204 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN

TI Horse heart metmyoglobin. A 2.8-Å resolution three-dimensional structure determination.

L19 ANSWER 205 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN

TI C3b receptor activity on transfected cells expressing glycoprotein C of herpes simplex virus types 1 and 2.

L19 ANSWER 206 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN

TI Structural homology of human complement component C8γ and plasma protein HC: Identity of the cysteine bond **pattern**.

L19 ANSWER 207 OF 219 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 54

TI CHARACTERIZATION OF HEPATITIS B VIRUS SURFACE ANTIGEN PRODUCED IN YEAST.

L19 ANSWER 208 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN

TI Nonoverlapping T and B cell determinants on an hepatitis B **surface** antigen pre-S(2) region synthetic **peptide**.

L19 ANSWER 209 OF 219 MEDLINE on STN DUPLICATE 55

TI Ligand-mediated conformational changes in Trp repressor protein of *Escherichia coli* probed through limited proteolysis and the use of specific antibodies.

L19 ANSWER 210 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN

TI Oligosaccharide microheterogeneity of the murine major histocompatibility  
antigens. Reproducible site-specific patterns of sialylation and branching  
in asparagine-linked oligosaccharides.

L19 ANSWER 211 OF 219 MEDLINE on STN DUPLICATE 56

TI Isolation and characterization of monkey interphotoreceptor  
retinoid-binding protein, a unique extracellular matrix component of the  
retina.

L19 ANSWER 212 OF 219 MEDLINE on STN DUPLICATE 57

TI Characterization of the influenza virus M2 integral membrane  
protein and expression at the infected-cell surface from  
cloned cDNA.

L19 ANSWER 213 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN

TI Cell surface expression of an in vitro recombinant class II/class I major  
histocompatibility complex gene product.

L19 ANSWER 214 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN

TI Physiologic inactivation of fluid phase C3b: Isolation and structural  
analysis of C3c, C3d,g ( $\alpha$ 2D), and C3g.

L19 ANSWER 215 OF 219 MEDLINE on STN DUPLICATE 58

TI RNA-protein interactions in some small plant viruses.

L19 ANSWER 216 OF 219 MEDLINE on STN DUPLICATE 59

TI Expression from cloned cDNA of cell-surface secreted forms of the  
glycoprotein of vesicular stomatitis virus in eucaryotic cells.

L19 ANSWER 217 OF 219 MEDLINE on STN DUPLICATE 60

TI Translation and assembly of HLA-DR antigens in Xenopus oocytes injected  
with mRNA from a human B-cell line.

L19 ANSWER 218 OF 219 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN

TI Properties of the Bacillus subtilis spore coat.

L19 ANSWER 219 OF 219 MEDLINE on STN DUPLICATE 61

TI The structure-activity relations of synthetic peptides as chemotactic  
factors and inducers of lysosomal secretion for neutrophils.

=> d ibib abs 119 13, 97, 219

L19 ANSWER 13 OF 219 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

ACCESSION NUMBER: 2004-111115 [12] WPIDS

CROSS REFERENCE: 1999-108528 [10]

DOC. NO. NON-CPI: N2004-088503

DOC. NO. CPI: C2004-045280

TITLE: Spotting probes on to solid support, useful for making  
arrays for detecting specific targets, uses an ink-jet  
method to deposit exact spots at high density.

DERWENT CLASS: A89 B04 D16 S03

INVENTOR(S): OKAMOTO, T; SUZUKI, T; YAMAMOTO, N

PATENT ASSIGNEE(S): (CANO) CANON KK

COUNTRY COUNT: 18

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
EP 1352976	A2	20031015 (200412)*	EN	47	
R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU NL PT SE					

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
EP 1352976	A2 Div ex	EP 1998-306107	19980731
		EP 2003-76692	19980731

FILING DETAILS:

PATENT NO	KIND	PATENT NO
EP 1352976	A2 Div ex	EP 895082

PRIORITY APPLN. INFO: JP 1998-209923 19980724; JP  
 1997-207837 19970801; JP  
 1997-287046 19971020

AN 2004-111115 [12] WPIDS

CR 1999-108528 [10]

AB EP 1352976 A UPAB: 20040218

NOVELTY - Spotting a probe that can bind specifically to a target on a solid support comprising applying the probe-containing solution to the support surface by an ink-jet method, and attaching the liquid to form a spot, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

(1) a probe array comprising many spots of probe, provided independently at sites on a support surface at a density of at least 10000 spots per square inch;

(2) detecting a target by applying a test sample to an array of spots of specific-binding probes and detecting presence or absence of a reaction product, where the spots are formed by an ink-jet method; and

(3) identifying the structure of a target by applying a test sample to an array of spots of specific-binding probes and detecting any binding between target and probes.

USE - The method is useful for producing arrays of probes, especially nucleic acid, protein or peptide probes, for detecting specific targets in samples.

ADVANTAGE - The ink-jet method provides efficient and accurate spotting on very small amounts of many probes at very high density, without damaging the probes. The probes are attached as round, exactly defined dots, without contamination from adjacent dots.

Dwg.0/6

L19 ANSWER 97 OF 219 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

ACCESSION NUMBER: 1999-120359 [10] WPIDS

DOC. NO. NON-CPI: N1999-087887

DOC. NO. CPI: C1999-035105

TITLE: New assembled peptide structures - comprising linear peptides bound directly to a solid support through a terminal amino acid in a predetermined pattern.

DERWENT CLASS: B04 D16 P84 S03

INVENTOR(S): RICH, A; WHITESIDES, G; YAN, L; ZHANG, S

PATENT ASSIGNEE(S): (HARD) HARVARD COLLEGE; (MASI) MASSACHUSETTS INST TECHNOLOGY

COUNTRY COUNT: 21

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 9858967	A1	19981230	(199910)*	EN	49
RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE					
W: CA JP					
US 6368877	B1	20020409	(200227)		
US 2002072074	A1	20020613	(200243)		
US 2004023414	A1	20040205	(200411)		

# APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9858967	A1	WO 1998-US13110	19980624
US 6368877	B1	US 1997-882415	19970625
US 2002072074	A1 Cont of	US 1997-882415	19970625
		US 2002-71500	20020208
US 2004023414	A1 Cont of	US 1997-882415	19970625
	Cont of	US 2002-71500	20020208
		US 2002-317838	20021211

# FILING DETAILS:

PATENT NO	KIND	PATENT NO
US 2004023414	A1 Cont of	US 6368877

PRIORITY APPLN. INFO: US 1997-882415 19970625; US  
2002-71500 20020208; US  
2002-317838 20021211

AN 1999-120359 [10] WPIDS

AB WO 9858967 A UPAB: 19990324

A composition which comprises a solid support and a self-assembled monolayer (SAM) of linear peptides where the peptides are bound directly to the solid support through a **terminal amino acid** in a predetermined **pattern**.

Also claimed are:

(1) a composition comprising a solid support and a SAM of linear peptides where the peptides are bound directly to the solid support through a **terminal amino acid** in a predetermined **pattern**, the peptide further being characterised by the formula:  $X-(CH_2)_n-CH(NH_2)CO(AA)_m-L$  or  $X-(CH_2)_n-CH(COOH)NH(AA)_m-L$ ; where X = H, alkyl, alkoxy, alkylthio, dialkylamine, thiol, hydroxy, **amino** or carboxy; each AA is the same or different naturally-occurring or non-naturally-occurring **amino acid**; L = a group which binds specifically or non-specifically to a target; n = 0-5; and m = at least 2;

(2) a SAM of a chemical reactive moiety on a solid support, the improvement comprising linking the chemical reactive moiety to the solid support through one or more peptide linkages;

(3) a method for manufacturing a composition comprising a solid support and a SAM of linear peptides, where the peptides are bound directly to the solid support through a **terminal amino acid** in a predetermined **pattern** comprising: (a) contacting an elastomeric stamp characterised by a relief of the predetermined **pattern** with a solution containing a compound which can react with the solid support; (b) contacting the stamp with a **surface** of the solid support for the reaction between the compound and the solid **surface**, where the compound reacts with the solid support at points of contact between the stamp and the solid support, corresponding to the relief of the predetermined **pattern**; (c) removing the stamp; and (d) contacting the solid support with a solution containing the linear peptides for the reaction of the **peptide** and the solid

support;

(4) a method for manufacturing a composition comprising a solid support and a SAM of linear peptides, where the peptides are bound directly to the solid support through a **terminal amino acid** in a predetermined **pattern** comprising: (a) contacting an elastomeric stamp characterised by a relief of the predetermined **pattern** with a solution containing the linear **peptide**; (b) contacting the stamp with a **surface** of the solid support for the reaction between the linear **peptide** and the solid **surface**, where the linear **peptide** reacts with the solid support at points of contact between the stamp and the solid support, corresponding to the predetermined **pattern**; and (c) removing the stamp;

(5) a method for culturing cells of a composition comprising a solid support and a SAM of linear peptides, where the peptides are bound directly to the solid support through a **terminal amino acid** in a predetermined **pattern** comprising: (a) contacting the cells with the composition of matter for the cells to bind to the linear peptides; and (b) maintaining the cells for growth;

(6) a method for assaying the presence of a target in a sample comprising: (a) contacting the sample with a composition comprising a solid support and a SAM of linear peptides, where the peptides are bound directly to the solid support through a **terminal amino acid** in a predetermined **pattern** and the linear peptides possess an affinity for the target; and (b) detecting the presence of the target on the composition.

USE - The SAMs can be designed to present ligands to cellular receptors or cell adhesion motifs or antibodies or antigen-binding fragments to cell surface proteins. They can be used for the detection of mammalian (e.g. tumour), plant, bacterial or yeast cells. They can also be used as a solid support for culturing cells, e.g. to study cell growth and cellular interactions to external stimuli, including other cells, growth factors, repellants, inhibitors, or for drug screening or production of cellular products. They can also be used for the detection of viruses, proteins, cytokines, cytokine receptors, growth factors and growth factor receptors.

Dwg.0/3

L19 ANSWER 219 OF 219 MEDLINE on STN DUPLICATE 61  
ACCESSION NUMBER: 76170835 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 1262785  
TITLE: The structure-activity relations of synthetic peptides as chemotactic factors and inducers of lysosomal secretion for neutrophils.  
AUTHOR: Showell H J; Freer R J; Zigmond S H; Schiffmann E; Aswanikumar S; Corcoran B; Becker E L  
SOURCE: Journal of experimental medicine, (1976 May 1) 143 (5) 1154-69.  
JOURNAL CODE: 2985109R. ISSN: 0022-1007.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
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AB 24 di-, tri-, and tetrapeptides have been synthesized as a start of a systematic study of the structural requirements for chemotactic activity and lysosomal enzyme-releasing ability in rabbit neutrophils. All but two of them are N-formyl methionyl peptides. Using the method of Zigmond and Hirsch (10), two representative peptides, F-Met-Leu-Phe and F-Met-Met-Met,

were shown to stimulate directed, as well as, random locomotion; thus, they were truly chemotactic. The various peptides showed a wide spread in activity. F-Met-Leu-Phe, the most active peptide studied, had an ED50 for induced migration of  $7 \times 10^{-11}$  M and for lysozyme and beta-glucuronidase release of  $2.4 \times 10^{-10}$  M and  $2.6 \times 10^{-10}$  M, respectively; the least active, Met-Leu-Glu was 26 million times less active in these respects. The relation of activity to structure is exceedingly specific, very small changes in structure making large changes in activity. Moreover, this specificity exhibits a definite regularity and **pattern**; the activity of a given peptide depends not only on its constituent amino acids but on the position of the amino acid in the peptide chain. Most striking in this last regards is the high activity conferred by phenylalanine when it is in the carboxyl **terminal** position of a tripeptide, whereas, as the second **amino** acid from the NH2 **terminal** end whether in a tripeptide or a dipeptide, it contributes no more to the activity than other **amino** acids with hydrophobic side chains such as leucine or methionine. The high activity and the specificity and nature of the structural requirements strongly suggest that the primary interaction of **peptide** and neutrophil leading to either chemotaxis or lysosomal enzyme release is a binding of the **peptide** with a stereospecific receptor on the neutrophil **surface**. Whether all chemotactic factors act through the same receptor is not known. An essentially exact correlation exists between the concentrations of the various synthetic peptides required to induce migration and their ability to induce release of lysozyme or beta-glucuronidase. This implies that these two neutrophil functions are triggered by the same primary interaction; possibly, the binding of the peptides to the same putative receptor. A higher concentration of a given peptide is required to stimulate lysosomal enzyme release than a corresponding migratory response. A slightly but significantly higher concentration of peptide is required to induce beta-glucuronidase secretion than lysozyme release.

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FILE 'MEDLINE, BIOSIS, EMBASE, CAPLUS, WPIDS' ENTERED AT 16:38:53 ON 15 AUG 2004

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L1      181 S E3
L2      13 S L1 AND (PROTEIN OR POLYPEPTIDE OR PEPTIDE) AND (SOLID (W) SUB
L3      11 DUP REM L2 (2 DUPLICATES REMOVED)
L4      461934 S (PROTEIN OR POLYPEPTIDE OR PEPTIDE) AND (SOLID (W) SUBSTRATE
L5      10160 S L4 AND AMINO AND TERMINUS
L6      374 S L5 AND PATTERN
L7      32033 S L4 AND AMINO AND (TERMINUS OR TERMINAL)
L8      1199 S L7 AND PATTERN
L9      239 S L8 AND CELL AND (GROWTH OR ATTACH? OR ADHES?)
L10     200950 S (PROTEIN OR POLYPEPTIDE OR PEPTIDE) (S) (SOLID (W) SUBSTRATE
L11     286743 S AMINO (S) (TERMINUS OR TERMINAL)
L12     11666 S L10 AND L11
L13     410 S L12 AND PATTERN
L14     200950 S (PROTEIN OR POLYPEPTIDE OR PEPTIDE) (S) ((SOLID (W) SUBSTRATE
L15     3 S L3 AND CELL AND (GROWTH OR ATTACH? OR ADHES?)
L16     77 S L13 AND CELL AND (GROWTH OR ATTACH? OR ADHES?)
L17     56 DUP REM L16 (21 DUPLICATES REMOVED)
L18     354 S L13 NOT L17
L19     219 DUP REM L18 (135 DUPLICATES REMOVED)

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